```
NAN.
                                KEEPUG2
00001
00002
                          CFT
                                 C.S.NCE
00003
00004
                   * PY C.SCHCENMAKERS DATE 79 04 28
00005
00006
                   * MCNITOR PROGRAM FOR M6800 SYSTEM
00007
00008
                   * COMMANDS:
00009
                   * R= PRINT USFR REGISTERS
00010
                         FRINT / ALTER MEMORY LCC
00011
                   * FT= FRINT DUMP VITH ASCII
00012
                   * PH= PUNCH DUMP S1 FORMAT
00013
                        LCAD CPJFCI FRCGRAM
                   * L=
00014
                   * C=
                         GO TO USER PROGRAM (ADDRESS)
00015
                         HARDWARF TRACE MODE
                   * T=
00016
00017
                   * C= CFFSFT CALCULATIONS
                   * D=
                         SELECT DEVICE 1-F
00018
00019
                                 5F800
                          CRC
00020 F800
00021
                                          JUMP TABLE FOR FIXED REFERENC
          F800
                   JMPTPL FQU
00022
00023 F800 7F FD24 XINCH
                          JMP
                                INEEF
                                          INPUT CHAR
00024 F803 7F FD0D XCUICH JMP
                                          CUTPUT CHAR
                                 CUTFF
00025 F806 7F FP56 XCCNIL JMF
                                CONTRL
                                          MONITOR FNTRY
00026 F809 7F FA85 XPADR JMP
                                 BADDR
                                          PUILD ADDRESS
00027 F80C 7F FA93 XPYTE JMP BYTE
                                          INPUT BYTE
00028 F80F 7F FAF8 XHEX
                          JMP
                                INHEX
                                          HFX CHAR
00029 F812 7F FAA5 XCTSTG JMF
                                 CUTSIC
                                          CUTPUT CRLF
                                          PRINT STRING
00030 F815 7F FAAD XPDATA JMP
                                FDATA1
00031 F818 7F FC82 XSADR JMF
                                          CET PEGA ENDA
                                 SADDR
00032 F81P 7F FP10 XCUT4H JMF
                                CUT4HS
                                          CUTPUI 4HFX
                                          CUTPUT PHEX
00033 F81F. 7F FB12 XCUT2H JMF
                                CUT2HS
00034 F821 7E FP14 XCUTS JMP
                                 CUTS
                                          CUTPUT SPACE
00035 F824 7F FDD5 XDSCIC JMP
                                 DISCIC
                                          ACTUAL DISC SCFTWARF
00036
00037
                   * PROGRAM INCLUDES EXTENSIONS OF
00038
                   * THE M6800 INSTUCTION SET
00039
                   * LIKE THE HEMENWAY BICS 68
00040
00041
                    FXTENSIONS INCLUDE:
00042
00043
                                     PUSH ALL REGISTERS ONTO STACK
                   * 0 =
                          PSHALL
00044
                                     PULL ALL REGISTERS FROM STACK
                   * 1 =
                          PULALL .
00045
                                     TRANSFER X TO A,P
                   * 2 =
                          TXAP
00046
                   * 3 =
                          TAPA
                                     TRANSFER A, P TC X
00047
                                     FXCANGE A.P WITH X
                   * 4 =
                          XARX
00048
                                     PUSH X ONTO STACK
                   * 5 =
                          PSHX
00049
                   * 6 =
                         PULX
                                     PULL X FROM STACK
00050
                         ADDXAP
                                     ADD X TO A, P
                   * 7 =
00051
                                     ADD A, B TO X
                   * 8 = ADDAEX
00052
                   * 9 =
                                    ADD A TC X
                         ADDAX
00053
                                     ADD P TO X
                   *10 = ADDBX
00054
```

1-21/1-1 pute though abilities 11767 Adv. at bloomers on 111179-SHE STATE

```
00055
                   *11 = SUBXAB SUBTRACT X FRCM A,B
*12 = SUBABX SUBTRACT A,B FRCM X
                    *12 = SUPAPX
00056
                    *13 = SUPAX
00057
                                     SUBTRACT A FROM X
                    *14 = SUPPX
00058
                                      SUPTRACT P FRCM X
                   *15 = MUL8

*16 = MUL16

*17 = MCVC

*18 = CMPC

MULTIPLY A WITH B TC A, B

MULTIPLY A, P WITH X TC A, B, X

PLCCK MCVF (TC 255 CHAR)

PLCCK COMPARE
00059
00060
00061
                    *18 = CMPC
00062
                    *19 = MCVS
00063
                                      PLOCK MOVE STRING
00064
                    *20 = INDEX
                                      X = X + A * B
00065
00066
                   ACIA EQU $F000 CCNSCLE DEVICE
         F000
00067
                   ACIA2 FQU $F002 TELETYPE DEVICE
TRACAD EQU $F004 HARDWARE TRACE COUNTER
         F002
00068
          F004
00069
00070
                    **************
00071
00072
                    * SWIHDR SWI INPUT
00073
00074 F827 30
                   SWIHDR TSX
00075 F828 EF 05
                                 5.X
                         LDX
00076 F82A 4F
                          CLR A
00077 F82B F6 00
                          LDA P Ø,X
00078 F82D C1 14
                          CMP P #20
00079 F82F 23 05
                          PLS
                                  *+7
00080
00081 F831 FE F104
                         LDX SWIVEC CCTC VECTCRED SVI
00082 F834 6F 00
                          JMP
                                 X
00083
00084 F836 58
                          ASL P
                                            *2
                       RCL A
00085 F837 49
00086
00087
00088
                   * CALCULATE THE ADDRESS OF THE
00089
                   * APPROPIATE PROCESSING ROUTINE
00090
00091 F838 8D 00
                        BSR STRT
00092
00093 F83A 30
                 STRT
                          ISX
00094 F83B EP 01
                          ADD P 1.X
00095 F83D A9 00
                          ADC A Ø,X
00096
****ERRCR 210
00097 F83F CP AD
                           ADDR
                                  #DSFTAR
00098 F841 89 01
                           ADC A #DSPTAB/256
00099
00100 F843 A7 00
                           STA A
                                 0.X
00101 F845 F7 01
                          STA B
                                  1 , X
00102 F847 FE 00
                          LDX .
                                  0 . X
00103 F849 FP 01
                          ADD B
                                 1 , X
00104 F84B A9 00
                          ADC A
                                  0 . X
00105
00106 F84D 30
                          TSX
00107 F84E A7 00
                           STA A
                                  Q,X
```

A METER A COMMANDA METERS OF A and during the same The second of the second - PT MAIN - 1 TO YOU THEY THE TO THE THE ATTENDED THE PROPERTY OF THE PARTY OF THE PA THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IN COLUMN

- STANDARY

```
00108 F850 E7 01
                          STA B
                                 1, 3
00109
00110 F852 A6 02
                          LDA A
                                 2,X
00111 F854 06
                          TAP
00112 F855 EE 00
                          LDX
                                 Ø,X
00113
                          INS
00114 F857 31
00115 F858 31
                          INS
00116
00117 F859 AD 00
                          JSR
                                 0 . X
                                          CALL PRCC . ROUTINE
00118
00119 F85B 30
                          TSX
00120 F85C 6C 06
                          INC
                                 6 . X
00121 F85E 26 02
                          BNE
                                 *+4
00122
00123 F860 6C 05
                          INC
00124 F862 3B
                          RTI
                                         RETURN TO USER
                   ************
00125
00126
                   * USER REGISTER EQUATES
00127
00128
           0002
                   UC
                         FQU
                                2
00129
                   UB
                                 3
           0003
                         EQU
00130
           0004
                   UA
                          EQU
                                . 4
00131
           0005
                   UXH
                          EQU
                                 5
00132
          0006
                   UXL
                          EQU
                                 6
00133
           0007
                   URH
                         FQU
                                 7
00134
          0008
                   URL
                         EQU
                                 8
00135
00136
                   ********
00137
00138
                   * PROCESSING ROUTINES
00139
00140
00141
                   *************
00142
                   * PSHALL
00143
00144 F863 34
                   PSHAL
                          DES
00145 F864 34
                          DES
00146 F865 34
                          DES
00147 F866 34
                          DES
00148 F867 34
                          DES
00149
                                 #9
00150 F868 C6 09
                          LDA P
00151 F86A 30
                          TSX
00152
                   PSHALS LDA A
                                 5 , X
00153 F86B A6 05
00154 F86D A7 00
                          STA A
                                 0 , X
00155 F86F 08
                          INX
00156 F870 5A
                          DEC. P
00157 F871 26 F8
                          BNE
                                 PSHALS
00158
00159 F873 C6 05
                         LDA P
                                 #5
00160 F875 30
                          TSX
00161
```

Set 19-97 No. 1 12 No 3 REAL E BE TIDE ASYRT 16 CONTRACTOR OF THE PROPERTY OF THE PARTY OF T War. 10,77

```
00162 F876 A6 02
                 PSHALC LDA A
                               UC,X
                  STA A
00163 F878 A7 09
                               UC+7,X
                        INX
00164 F87A 08
                        DEC B
00165 F87B 5A
                               PSHALC
                        BNE
00166 F87C 26 F8
00167
00168 F87E 39
                        RTS
                  *************
00169
                  * PULALL
00170
00171
                  FULAL TSX
00172 F87F 30
                    LDA B #5
00173 F880 C6 05
00174
                               UC+7,X
                        LDA A
00175 F882 A6 09
                  PULAC
                         STA A
                               UC X
00176 F884 A7 02
                         INX
00177 F886 08
                         DEC P
00178 F887 5A
                               PULAC
00179 F888 26 F8
                        BNE.
00180
                        LDA B
                               #9
00181 F88A C6 09
00182
                  PULALS LDA A
                               URL-5,X
00183 F88C A6 03
                         STA A
                               URL, X
00184 F88E A7 08
                         DEX
00185 F890 09
                         DEC P
00186 F891 5A
                         BNE
                               PULALS
00187 F892 26 F8
00188
                         INS
00189 F894 31
                         INS
00190 F895 31
                         INS
00191 F896 31
00192 F897 31
                         INS
                         INS
00193 F898 31
00194
                         RTS
00195 F899 39
                  **************
00196
                  * TXAB
00197
00198
                         TSX
                  TXAP
00199 F89A 30
                                UXH, X
                         LDA A
00200 F89B A6 05
                         LDA B
                                UXL,X
00201 F89D F6 06
00202
                         STA A
                                UA,X
00203 F89F A7 04
                  STAP
                         STA P
                                UP,X
00204 F8A1 E7 03
00205
                         RIS
00206 F8A3 39
                   ************
00207
                   * TAPX
00208
00209
                         TSX
                  TARX
00210 F8A4 30
                         LDA A
                                UA, X
00211 F8A5 A6 04
00212 F8A7 A7 05
                         STA A
                                UXH,X
00213 F8A9 A6 03
                         LDA A
                                UP,X
                         STA A
                                UXL.X
 00214 F8AB A7 06
 00215
```

DESIGN STREET, AND DESCRIPTION OF THE PARTY OF 100000 -34 MANUAL TO THE

PHIRDS

```
00216 F8AD 39
                  RTS
00217
                  ************
00218
                  * XABX
00219
00220 F8AE 30
                  XABX
                         TSX
00221 F8AF A6 05
                         LDA A UXH,X
00222 F8B1 36
                         PSH A
00223 F8B2 F6 06
                         LDA B
                                UXL,X
00224 F8B4 8D EF
                         BSR
                                TABX+1
00225 F8B6 32
                         PUL A
00226 F8B7 20 E6
                        . BRA
                                STAB
00227
                               ****************
00228
                  * PSHX
00229
00230 F8P9 34
                  PSHX
                         DES
00231 F8BA 34
                         DFS
00232 F8BB 30
                         TSX
00233 F8BC 86 09
                         LDA A
00234
00235 F8BE E6 02
                  PSHXA
                        LDA B
                                2,X
00236 F8C0 E7 00
                         STA B
                               Ø,X
00237 F8C2 08
                         INX
00238 F8C3 4A
                         DEC A
00239 F8C4 26 F8
                         BNE
                               PSHXA
00240
00241 F8C6 30
                         TSX
00242 F8C7 A6 05
                       LDA A
                               UXH,X
00243 F8C9 A7 09
                        STA A
                               UXH+4,X
00244 F8CB A6 06
                        LDA A
                               UXLX
00245 F8CD A7 0A
                        STA A
                               UXL+4,X
00246
00247 F8CF 39
                        RTS
00248
                  ************
00249
                  * PULX
00250
00251 F8D0 30
                  PULX
                        TSX
00252 F8D1 A6 09
                        LDA A UXH+4,X
00253 F8D3 A7 05
                        STA A
                               UXH,X
00254 F8D5 A6 0A
                        LDA A
                              UXL+4,X
00255 F8D7 A7 06
                        STA A
                              UXL,X
00256
00257 F8D9 86 09
                               #9
                        LDA A
00258
00259 F8DR F6 08
                  PULXA
                        LDA P
                               8,X
00260 F8DD F.7 0A
                        STA P
                               10.X
00261 F8DF 09
                        DEX
00262 F8E0 4A
                        DEC A
00263 F8E1 26 F8
                        BNE
                               FULXA
00264
00265 F8E3 31
                        INS
00266 F8E4 31
                        INS
00267
00268 F8E5 39
                        RTS
00269
                  *************
```

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- I THE RESERVE THE PARTY OF TH				
A LANCON AND THE				
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The state of the s				
	J. 855			
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CAS ARCUS	19 111			
SUM!				
A STATE OF THE PARTY OF THE PAR			1334	
THE PARTY OF THE PROPERTY OF THE PARTY.				
				DERS
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```
* ADDXAB
00270
00271
00272 F8E6 30
                ADXAB
                      TSX
00273 F8E7 8D C6
                      BSR
                            XABX+1
00274 F8F9 8D 03
                      BSR
                            ADAPX+1
00275 F8FB 20 C2
                      BRA
                             XAPX+1
                ***********
00276
                * ADDARX
00277
00278
00279 F8ED 30
                ADABX
                     TSX
                      LDA A UB, X
00280 F8EE A6 03
00281 F8F0 E6 04
                     LDA B UA,X
00282
00283 F8F2 AB 06
                ADDAR ADD A UXL,X
                 STA A UXL,X
00284 F8F4 A7 06
00285
                      ADC B
00286 F8F6 E9 05
                             UXH,X
00287
00288 F8F8 07
                STAUXH TPA
                   STA P
00289 F8F9 E7 05
                             UXH, X
00290 F8FB 6D 06
                      TST
                            UXLX
00291
                TESTZ BEQ
00292 F8FD 27 02
                            TESTZA
00293
                     AND A #SFP
00294 F8FF 84 FB
00295
00296 F901 A7 02
                TESTZA STA A UC, X
00297
00298 F903 39
                      RTS
                ***********
00299
00300
                * ADDAX
00301
00302 F904 30
                ADDAX TSX
                      LDA A UA,X
00303 F905 A6 04
00304
00305 F907 C6 00
                ADDZ LDA P #0
00306 F909 20 F7
                 BRA
                            ADDAB
00307
                ************
00308
                * ADDPX
00309
                ADDBX TSX
00310 F90B 30
00311 F90C A6 03
                      LDA A UB, X
00312 F90E 20 F7
                      BRA
                            ADDZ
00313
                ***********
00314
                * SUPXAP
00315
00316 F910 30
                SBXAB
                     TSX
                      BSR XAPX+1
00317 F911 8D 9C
00318 F913 8D 03
                     PSR
                            SPAPX+1
                            XABX+1
00319 F915 20 98
                     PRA
                ************
00320
00321
                * SEARX
00322
                SBARX TSX
00323 F917 30
```

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```
LDA B UXH,X
   00324 F918 E6 05
   00325 F91A A6 06
                    LDA A UXL,X
   00326
   00327 F91C A0 03
                       SUB A UB,X
   00328 F91E A7 06
                      STA A UXL,X
   00329
                  SPC P UA,X
BRA STAUXH
   00330 F920 E2 04
   00331 F922 20 D4
                 **********
   00332
   00333
                  * SUPAX
   00334
                  *
   00335 F924 30
                  SUBAX TSX
00336 F925 E6 04
                  LDA · B UA · X
00337
                  SUB LDA A
   00338 F927 A6 06
                             UXL,X
   00339 F929 10
                       SBA
   00340 F92A A7 06
                      STA A UXL,X
   00341
                  LDA B UXH,X
   00342 F92C E6 05
   00343 F92E C2 00
   00344 F930 20 C6
                       BRA STAUXH
   00345
                  ************
   00346
                 * SUBBX
   00347
                SUBBX TSX
  00348 F932 30
   00349 F933 E6 03
                 LDA B UB,X
   00350 F935 20 F0
                       BRA SUP
   00351
                 ************
   00352
                 * INDEX
   00353
   00354 F937 8D 38 INDEX BSR
                            MPY8
   00355 F939 37
                       PSH B
   00356 F93A 16
                       TAP
   00357 F93B 32
                       PUL A
   00358 F93C 30
                       TSX
   00359 F93D 20 B3
                      BRA ADDAB
  00360
                 ***********
  00361
                 * MUL 8
   00362
  00363 F93F 8D 30 MUL8 BSR MPY8
  00364 F941 30
                      TSX
  00365 F942 E7 03
                      STA B UB, X
  00366 F944 A7 04
                       STA A UA, X
  00367 F946 07
                       TPA
  00368 F947 5D
                       TST B
  00369
  00370 F948 20 B3
                 JMPTZ BRA TESTZ
  00371
                 ************
  00372
                 * MUL 16
  00373
  00374 F94A 86 10
                MUL16 LDA A #16
  00375 F94C 36
                PSH A
  00376 F94D 30
                       TSX
  00377 F94E 4F
                      CLR A
```

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8 PULL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   THE WORLD STREET
A TEREST AND DESCRIPTION OF THE PARTY NAMED IN
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                   THE RESERVE OF THE PARTY OF THE
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```
00378 F94F 5F
                           CLR B
00379 F950 66 06
                           ROR
                                  UXH+1,X
00380 F952 66 07
                           RCR
                                  UXL+1,X
00381
00382 F954 24 04
                    MUL16L BCC
                                  MUL16S
00383 F956 EB 04
                           ADD B
                                  UB+1,X
00384 F958 A9 05
                           ADC A
                                  UA+1,X
00385
00386 F95A 46
                    MUL165 ROR A
00387 F95B 56
                           ROR B
00388 F95C 66 06
                           ROR
                                  UXH+1,X
00389 F95E 66 07
                           ROR
                                  UXL+1,X
00390 F960 6A 00
                           DEC
                                  Ø.X
00391 F962 26 F0
                           BNE
                                  MUL16L
00392
00393 F964 31
                           INS
00394 F965 30
                           TSX
00395 F966 E7 03
                           STA B
                                  UB,X
00396 F968 A7 04
                           STA A
                                  UA X
00397
00398 F96A 07
                           TPA
00399 F96R FA 05
                                  UXH,X
                          ORA B
00400 F96D AA 06
                           CRA A
                                  UXL,X
00401
00402 F96F 20 D7
                          BRA
                                  JMPTZ.
00403
                   *************
00404
                   * MPY 8
00405
00406 F971 86 08
                   MPY8
                          LDA A
                                  #8
00407 F973 36
                          PSH A
00408
00409 F974 4F
                          CLR A
00410 F975 30
                          TSX
00411 F976 E6 06
                                  UP+3,X
                          LDA B
00412 F978 56
                          ROR B
00413
00414 F979 24 02
                   MPY8L
                          BCC
                                  MPY85
00415
00416 F97B AB 07
                          ADD A
                                  UA+3, X
00417
00418 F97D 46
                   MPY85
                          ROR A
00419 F97E 56
                          ROR P
00420 F97F 6A 00
                          DFC
                                 0 , X
00421 F981 26 F6
                          BNF
                                  MPY8L
00422
00423 F983 31
                          INS
00424 F984 39
                          RTS
00425
                   *************
00426
                   * MCVC
00427
00428
          0009
                   FROM
                          FQU
                                 9
00429
          000P
                   TOO
                          EQU
                                 11
00430
00431 F985 30
                   MOVO
                          TSX
```

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	2 F98	6 E	6 03		LDA	B	UP,X	GET COUNT
0043				*				
	4 F988			MOVC 1	LDX	4	FROM, X	
0043	5 F981	A A	5 00		LDA	A	0 . X	GET CHARACTER
0043	6		-1	*				ozi ommaoren
0043	7 F980	36	9		TSX			4 1 1
0043	8 F98I	E	6 Ø B		LDX		TOOX	
0043	9 F98F	· AT	7 00		STA		Ø, X	MOVE CHARACTER
0044				*	2		OJA	MOVE CHARACTER
0044	F991	30	3		TSX			The state of the s
	F992			•	DEC			
	F993			7	BEQ		MCVC3	DONE
00444				*	DEW		MCVCS	DONE
	F995	60	00	-	INC		EDON: 1 V	
	F997				BNE		FRCM+1,X	
00447				*	DIVE		MOVC2	
	F999	60	00	•	TNIC		EDON V	
	EGE!			*	INC		FROM, X	
	F99B			MOVC2	7.110			
	F99D			MUVCS	INC		T00+1,X	
00452		20	E 9		BNE		MOVC1	
	F99F		45	*				
	F9A1				INC		TOO,X	
00455		20	1.5		BRA		MOVC1	
	F9A3	20		*				
00457		39		MOVC3	RTS			
00458						***	******	*******
00459				* CMPC				
00460		00	<b>a</b> o	*	50			
00461		00		PARM1	EQU		9	
00462		שש	88	PARM2	EQU		11	
	F9A4	20		*				
	F9A5		0.0	CMPC	TSX	_		
00465	LAHS	EO	63		LDA	B	UB, X	GET COUNT
	F9A7	EE	00	* CMPØ				
00467	F9A9	A G	00	CMPØ				
00468	r JH J	HO	W W	-	LDA	A	Ø, X	GET A CHAR
	F9AB	20		*	m a 11			
00470	F9AC	26	an		TSX			
00471	F9AE	A 1	00		LDX		PARM2,X	
00479	F9BØ	HI			CMP	A	Ø • X	MATCH?
00473	שפפיז	20	10	1	BNE		CDONE	V <sub>1</sub> C
00474	EODO	0.0		*				
00474	FORS	30			TSX			
00475	1983	60	ØA		INC		PARM1+1,X	
00476	1985	26	02		BNE		CMP1	
	E002		00	*				
00478 00479	1 381	00	09	V	INC		PARM1,X	
00480	FORO	60	00	*			DARWA	
00481	FORR	00	00	CMP1	INC		PARM2+1,X	
00482	r ann	26	62		PNE		CMP2	
00483	FODD		an	*			V. 3. 1	
00484	LAED	00	ØP	al.	INC		PARM2,X	
00485	FODE	5.0		*	DEC	_		
-2 703	ranr	SH		CMP2	DFC	H		ALL DONE?

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	- 12	1100	154	
	- 12	1100	1985	
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	Ser.	11.000	1985	
	Ser.		1985	
	Ser.	11.000	1985	
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	Ser.	77	1985	
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00486 F9C0 26 E5
                       BNE CMP0
00487
00488 F9C2 30
                 CDONE
                       TSX
00489 F9C3 07
                        TPA
00490 F9C4 A7 02
                               UC,X SET CC
                        STA A
                        STA B UB, X SET B
00491 F9C6 E7 03
00492
00493 F9C8 39
                        RTS
00494
                 ***********
                 * MOVS
00495
                 * Class of the American District
00496
00497 F9C9 30
                 MOUS
                        TSX
00498
00499 F9CA EE 09
                 MOUSI LDX FROM, X
00500 F9CC A6 00
                        LDA A Ø,X
                                       GET CHAR
00501
00502 F9CE 30
                        TSX
00503 F9CF EE 0B
                              TOO,X
                       LDX
00504 F9D1 A7 00
                       STA A Ø, X
                                      MOVE CHAR
00505
00506 F9D3 30
                        TSX
                        CMP A #4
00507 F9D4 81 04
                                       DONE?
00508 F9D6 27 ØE
                        BEQ MOVS3
                                       ; YES
00509
00510 F9D8 6C 0A
                        INC FROM+1,X
00511 F9DA 26 02
                        BNE
                              MCVS2
00512
                       INC FROM.X
00513 F9DC 6C 09
00514
00515 F9DE 6C 0C
                 MOVS2 INC
                              TCC+1,X
00516 F9E0 26 E8
                        BNE
                              MOVS1
00517
00518 F9E2 6C 0B
                        INC
                              TOC.X
00519 F9E4 20 E4
                        BRA
                              MOVS1
00520
00521 F9E6 39
                 MOVS3 RTS
00522
                 **********
00523
                 * DISPATCH TABLE FOR PROCESSING ROUTINES
00524
00525
        ØIAD
                 DSPTAB EQU
                              *-STRT
00526
00527 F9E7 FE7C
                        FDB
                              *-PSHAL*$FFFF 0
00528 F9E9 FE96
                        FDP
                              *-PULAL*SFFFF
                                            1
00529 F9EB FEAF
                        FDB
                              *-TXAP*$FFFF 2
00530 F9ED FEB7
                        FDB
                             *-TAPX*SFFFF 3
00531 F9EF FEBF
                       FDB
                             *-XAPX*SFFFF
00532 F9F1 FEC8
                      FDB
                              *-PSHX*$FFFF
00533 F9F3 FEDD
                              *-PULX*SFFFF
                       FDB
00534 F9F5 FEF1
                       FDB .
                              *-ADXAB*$FFFF
00535 F9F7 FEF6
                       FDB
                              *-ADABX*$FFFF
                                            8
00536 F9F9 FF0B
                       FDB'
                              *-ADDAX*SFFFF 9
00537 F9FB FF10
                      FDB
                              *-ADDBX*$FFFF 10
00538 F9FD FF13
                      FDB
                              *-SPXAP*SFFFF 11
00539 F9FF FF18
                       FDB
                              *-SPAPX*SFFFF 12
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A THE REAL PROPERTY AND ADDRESS OF THE PARTY A
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00540 FA01 FF23
                     FDB *-SUBAX*$FFFF 13
00541 FA03 FF2F
                        FDB
                               *-SUBBX*$FFFF 14
00542 FA05 FF3A
                       FDB
                               *-MUL8*$FFFF 15
                        FDB
00543 FA07 FF43
                               *-MUL16*$FFFF 16
                  FDB
00544 FA09 FF7C
                               *-MCVC*$FFFF 17
                        FDB
00545 FA0B FF99
                               *-CMPC*$FFFF 18
00546 FA0D FFBC
                        FDP
                               *-MOVS*SFFFF 19
                   FDB
00547 FA0F FF28
                               *-INDEX*SFFFF 20
                                                          FOR X- RTSUB
                  ***********
00548
00549
00550
                  * START OF THE MONITOR PART
00551
00552 FA11 FE F100 IO LDX IOV LOAD IRQ RAM VECTOR
00553 FA14 6E 00
                        JMP X
                                        GOTO IT
00554
                                      LOAD NMI RAM VECTOR
                              NIO
X
00555 FA16 FE F102 POWDWN LDX
00556 FA19 6E 00
                        JMP
                                       GOTO IT
00557
00558 FAIB 86 11 RDRON LDA A #$11
                                      DC1 CCDE
00559 FAID BD FA7F
                        JSR
                               OUTCH
00560 FA20 B6 F11P NOECHO LDA A STATUS
                                        SET NCECHO BIT
00561 FA23 8A 80 ORA A #$80
00562 FA25 7E FC10
                        JMP
                              ECH01
00563
                  ***********
00564
                  * LCAD OBJECT FILE
00565
00566 FA28 8D F1 LOAD BSR RDRON PUT READER ON 00567 FA2A BD FA82 <del>LOADS USR</del> INCH LCCK FOR HEADER
00568 FA2D 81 53 CMP A #15
00569 FA2F 26 F9
                       BNE LCAD3
                                       NCT FOUND
00570 FA31 BD FA82
                    JSR
                              -INCH
00571 FA34 81 30
                       CMP A #10
                                        SEARCH HEADER
00572 FA36 26 F2
                       ENE LCADS
                                        STILL NOT FOUND
                        BRA
                               Loca 04
00573
                                       FOUND BELL! Headen Bell
00574 FA38 86 07
                  Load3 LDA A #57
00575 FA3A BD FA7F
                       JSR CUTCH
00576
                  ******
00577 FA3D 8D 43
                  LOAD4 BSR
                               INCH
                                    START LCAD DATA BLOCK
00578 FA3F 81 53
                        CMP A
                               # ' S
00579 FA41 26 FA
                        BNE
                               LCAD4
00580 FA43 8D 3D
                      BSR
                               INCH
00581 FA45 81 39
                        CMP A # 9
                                      END RECORD?
00582 FA47 27 25
                        BEQ
                               LOAD21 YES
                       CMF A #'1
00583 FA49 81 31
                       PNE A
CLR
00584 FA4B 26 F0
                               LOAD4
                               4000B
00585
00586 FA4D 7F F116
                               CKSM
00587 FA50 8D 41
00588 FA52 80 02
                       BSR BYTE GET BYTE G
SUB A #2 ADJUST IT
                                     GET BYTE COUNT
00588 FA52 80 EE
00589 FA54 R7 F118
                       STA A BYTEC1 SAVE IT
                       BSR BADDR
00590 FA57 8D 2C
00591 FA59 8D 38 LCAD11 BSR BYTE GET INC.
00591 FA59 8D 38 LCAD11 BSR BYTE GET INC.
00591 FA59 8D 2C BYTEC1 DECREMENT COUNT
                    BEQ LOADIS GO CHECK THE BLOCK
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STA A X
00594 FA60 A7 00
                                     SAVE DATA
00595 FA62 08
                      INX
                                     BUMP POINTER
00596 FA63 20 F4
                       BRA
                             LCADII END CONTINUE
00597
00598 FA65 7C F116 LCAD15 INC
                             CKSM
                                     CORRECT LCADED?
00599 FA68 27 D3
                      BEQ
                             LCAD4
                                     YES
00600
00601 FA6A 86 3F
                 OUTOM LDA A # ??
                                     OUTPUT QUESTIONMARK
00602 FA6C 8D 11
                      BSR
                             OUTCH
00603
00604 FA6E
                LOAD21 EQU
00605 FA6E 7E FB56 C1 JMP
                            CONTRL GOTO MONITOR
00606
                 ************
00607
00608 FA71 44
              OUTHL LSR A
00609 FA72 44
                      LSR A
                                    I - PUITUE VINE
00610 FA73 44
                      LSR A
00611 FA74 44
                      LSR A
00612 FA75 84 0F OUTHR AND A #$F
                                    MASK OFF BITS
00613 FA77 8B 30
                      ADD A #$30
                                    MAKE ASCII
00614 FA79 81 39
                      CMP A #$39
                                   NUMBERS?
00615 FA7B 23 02
                      BLS
                            OUTCH
                                    AND RTS
00616 FA7D 8B 07
                      ADD A #7
00617
                *************
00618
00619 FA7F 7E FDØD OUTCH JMP
00620 FA82 7E FD24 INCH JMP
                             OUTEE
                                    STEPPING STONE
                            INEEE
                                    TOO
00621
                ************
00622
00623 FA85 8D 0C PADDR BSR BYTE
                                   CONVERT 2 BYTES INTO ADDRESS
00624 FA87 B7 F114 STA A XHI
00625 FA8A 8D 07
00626 FA8C B7 F115 STA A
                            BYTE
                      STA A XLO
00627 FASF FE F114 PADR1 LDX
                            XHI
                                  ADDRESS WE BUILT
00628 FA92 39
                      RTS
00629
                ************
00630
00631 FA93 8D 53
                BYTE BSR
                            INHEX CONVERTS 2 HEX CHAR INTO BYTE
00632 FA95 48
                      ASL A
00633 FA96 48
                     ASL A
00634 FA97 48
                      ASL A
00635 FA98 48
                     ASL A
                                    SHIFT 4 PLACES TO THE LEFT
00636 FA99 16
                      TAB
00637 FA9A 8D 4C
                     BSR
                            INHEX
00638 FA9C 1B
                     ABA
                                    COMPINE CHAR
00639 FA9D 16
                      TAP
00640 FA9E FB F116
                    . ADD B CKSM
                                   UPDATE CHECKSUM
00641 FAA1 F7 F116
                      STA B
                           CKSM
00642 FAA4 39
                      RTS
00643
                *************
00645 FAA5 CE FF98 OUTSTG LDX #MCL1
                                   CRLF STRING
00646 FAA8 20 03
                    BRA PDATA1
                                   CUTPUT IT
00647
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00648 FAAA 8D D3 PDATA2 BSR
                           OUTCH
00649 FAAC 08
                       INX
00649 FAAD A6 00 PDATA1 LDA A X
                             #4 END OF STRING?
PDATA2 NOT YET
                 CMP A #4
00651 FAAF 81 04
00652 FAB1 26 F7
                       BNE
00653 FAB3 39
                      RTS
                ***********
00654
00655
00656 FAB4 8D CF . CHANGE BSR BADDR GET ADDRESS OF LOC
                 BSR OUTS
00657 FAB6 8D 5C
00658 FAB8 8D 4B
                             OUT2H
                                     OUTPUT CONTENTS
                 CHA1
                       BSR
                BSR INCH
00659 FABA 8D C6
                                     GET COMMAND
00660 FABC 81 0D
                       CMP A #SD
                                     TERMINATE?
                            C1
                       BEQ
00661 FABE 27 AE
00662 FACØ 81 5E
                       CMP A # 1
00663 FAC2 27 20
                      BEQ CHA11 PREVIOUS LOC
00664 FAC4 81 20
                       CMP A
                             #$20
                             CHA12
00665 FAC6 26 0D
                                    NO CHANGE OF DATA
                       BNE
                      BSR BYTE NEW DATA
00666 FAC8 8D C9
00667 FACA 09
                      DEX
                                     ADJUST POINTER
                                   STORE DATA
                      STA A X
CMP A X
00668 FACB A7 00
                                     DATA CORRECT WRITTEN?
00669 FACD A1 00
                             CHA14
00670 FACF 27 03
                      BEQ
                                     YES
                           OUTQM
00671 FAD1 7E FA6A C3
                      JMP
                                     GO CUTPUT '?'
00672 FAD4 08 CHA14 INX
00673 FAD5 FF F114 CHA12 STX XHI
                                     SAVE POINTER FOR A WHILE
                 BSR
00674 FAD8 8D CB
                            OUTSTG
                   LDX
00675 FADA CE F114
                            #XHI
                                     OUTPUT NEW ADDRESS
00676 FADD 8D 31
                      BSR
                             OUT4HS
                 LDX
00677 FADF FE F114
                             XHI
                                      GET POINTER
                     BRA CHA1
00678 FAE2 20 D4
00679 FAE4 09 CHA11 DEX
                                     DECREMENT
00680 FAE5 09
                       DEX
00681 FAE6 20 ED
                             CHA12
                       PRA
00682
                ***********
00683
                *
00684 FAE8 8D 98 INHEX BSR INCH
00685 FAEA 80 30
                      SUB A #$30
                                    LOWER AS '0'
                   BMI ERROR
00686 FAEC 2B 0F
                                     NO HEX
00687 FAEE 81 09
                            #509
                     CMP A

      00688 FAF0 2F 0A
      BLE IN1HG

      00689 FAF2 81 11
      CMP A #$11

                                   HEX
                             INIHG
                    BMI ERROR
00690 FAF4 2B 07
                                    NO HEX
00691 FAF6 81 16
                      CMP A #$16
                   BGT ERROR
00692 FAF8 2E 03
                                     NO HEX
00693 FAFA 80 07
                    __ SUB A #7
                                     ADJUST
00694 FAFC 39
                 INIHG RTS
00695
                ********
00696 FAFD FF F11F ERROR STX ERSAVE SAVE X
00697 FB00 FE F11D LDX ERRVEC GET ERROR ROUTINE
00698 FB03 6E 00 JMP X GOTO IT
00699
00700
               *************
00701
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00702 FB05 A6 00 CUT2H LDA A X
                                   GET A CHAR
 00703 FB07 BD FA71 OUT2HA JSR OUTHL
                                      CUTPUT LEFT CHAR
 00704 FB0A A6 00
                        LDA A X
 00705 FB0C 08
                        INX
                        JMP
 00706 FB0D 7E FA75
                              OUTHR
                                     OUTPUT RIGHT CHAR +RTS
                  ************
 00707
 00708
                  OUT2HS BSR OUT2H OUTPUT LEFT 2HEX OUT2HS BSR OUT2H OUTPUT RIGHT 2HEX
 00709 FB10 8D F3 OUT4HS BSR
 00710 FB12 8D F1
 00711 FB14 86 20
                      LDA A #$20 SPACE CHAR
                  OUTS
                       JMP
 00712 FB16 7E FA7F
                            OUTCH
                                       +RTS
 00713
                  *************
 00714
 00715 * RESTART ENTRY
 00716
 00717
                 * ACIA1=CONSOLE DEVICE
 00718
 00719
                  * ALL INTERRUPT POINTERS SET
 00720
 00721 FB19 START EQU
 00722 FB19 8E F1B4
                              #TSTACK SETUP USER STACKPOINTER
                        LDS
 00723 FB1C BF F112
                        STS
                              TSP
 00724
                             #SFE SETUP INTERRUPT POINTERS
SWIVEC SOFTWARE INTERPRETATION
 00725 FB1F CE FBD5
                           #SFE
                       LDX
 00726 FB22 FF F104
                       STX
 00727 FB25 FF F102
                            NIO
                        STX
                                     NON MASKABLE INT
 00728 FB28 FF F100
                       STX
                                     INTERRUPT REQUEST
 00729
 00730 FB2B 86 03
                       LDA A #3
                       STA A ACIA2
 00731 FB2D B7 F002
                                     RESET TTY DEVICE
 00732 FB30 B7 F000
                                     RESET CONSOLE DEVICE
                       STA A ACIA
 00733 FB33 7F F11B
                             STATUS ECHO ON
                       CLR
 00734
 00735 FB36 86 11
                      LDA A #$11 CONTROL WORD FOR ACIA
. 00736 FB38 B7 F000
                       STA A ACIA
                                      WRITE CONSCLE DEVICE
 00737 FB3B B7 F002
                       STA A ACIA2 WRITE TTY DEVICE
 00738
 00739 FB3E CE FD41
                       LDX
                              #INCR
                                     SETUP INDIRECT FOR INPUT
 00740 FB41 FF F108
                       STX
                              INSWITC
 00741 FB44 CE FD15
                      LDX
                              #CTCR
 00742 FB47 FF F10A
                       STX
                              OTSWITC
 00743
 00744 FP4A CE FA6A ERRSET LDX
                             #OUTOM SET TO OUT'?'
00745 FB4D FF F11D
                       STX
                              ERRVEC
00748 FB50 CE F000 SETDEV LDX #ACIA
                                     SET DEVICE VECTOR CONSOLE
00749 FB53 FF F106
                      STX
                             ACIAVC
00750
00751 FB56 8E F1F0 CONTRL LDS
                             #CSTACK GET MONITOR STACKPOINTER
00752 FB59 BD FC07
                    JSR
                             RDROFF
00753 FB5C BD FC02
                       JSR PNHOFF TURN READER AND PUNCH OFF
00754
00755 FB5F CE FF90
                      LDX #MCL0
                                     CUTPUT MONITOR PROMPT
00756 FB62 BD FAAD
                       JSR
                              PDATA1
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0075	7 7 11 7			*				
			EDAG	•	100		TNOWD	GET GOWNAND
	3 FB65				JSR		INCMD	GET COMMAND
	9 FB68				TAB			
	7 FB69	8 D	A9		BSR		OUTS	CUTPUT SPACE
0076	1. 1. 1. 1.			*				
0076	PB6B	C1	50		CMP	В	# * P	PRINT OR PUNCH?
0076	3 FB6D	27	57		BEQ		CL1	
0076	4	71		*				
0076	FB6F	C1	4C		CMP	В	# * L	LOAD FILE
	5 FB71				BNE		*+5	All the state of t
	FB73				JMP		LOAD	
0076				*	01.1		Bornb	
100.00	FB76	CI	40	4	CMD	-	# * M	MEMORY EVANIN OR GUANGE
					CMP	D		MEMORY EXAMIN OR CHANGE
100.00	FB78				BNE		*+5	
The second second	FB7A	7E	FAB4		JMP		CHANGE	THE WE STATE
0077		- 0	Alex-	*	, (		00000	
	FB7D				CMP	B	# * T	TRACE MODE?
	FB7F				BNE		*+5	
0077	FB81	7 E	FD97		JMP		TRACE	
0077				*				
0077	FB84	C1	4F		CMP	В	# ° C	OFFSET
0077	FB86	26	Ø3		BNE		*+5	
	FB88				JMP		OFFSET	
0078				*	0			
	FB8B	CI	44		CMP	R	# * D	DEVICE SELECT
	FB8D				BNE	D	CL10	DEVICE SELECT
							CLIE	
0078	FORE	DD	EVEG		ICD		TAILLY	CET DEUICE
	FB8F			40	JSR.	ISTA	INHEX	GET DEVICE
0078	FB92	27		4A	JSR. BEQ		INHEX	SKIP ZERO
0078	FB92	27 4A		2803			CL 10	
0078 0078 0078	FB92 FB94 FB95	27 4A 48	05		DEC	mad d	CL 10	
0078 0078 0078 0078	FB92 FB94 FB95 FB96	27 4A 48	05	28 <b>03</b>		mad d	CL 10	
0078 0078 0078 0078	FB92 FB94 FB95 FB96	27 4A 48 B7	Ø5 F107	28 <b>03</b> 48	DEC ASL STA	ng d A	CL10 ACIAVC+1	SKIP ZERO
0078 0078 0078 0078 0078	FB92 FB94 FB95 FB96 FB99	27 4A 48 B7	Ø5 F1Ø7 52	28 <b>03</b>	DEC ASL STA	ng d A	CL 10	
0078 0078 0078 0078 0078 0078	FB92 FB94 FB95 FB96 FB99 FB98	27 4A 48 B7	Ø5 F1Ø7 52	28 <b>03</b> 48	DEC ASL STA	ng d A	CL10 ACIAVC+1	SKIP ZERO
0078 0078 0078 0078 0078 0078 0079	FB92 FB94 FB95 FB96 FB99 FB98	27 4A 48 B7 C1 27	05 F107 52 44	28 <b>03</b> 48	DEC ASL STA	ng d A	CL10  ACIAUC+1  #'R PRNTRG	PRINT REGISTERS?
0078 0078 0078 0078 0078 0078 0079 0079	FB92 FB94 FB95 FB96 FB99 FB98	27 4A 48 B7 C1 27	<ul><li>Ø5</li><li>F1Ø7</li><li>52</li><li>44</li><li>47</li></ul>	28 <b>03</b> 48 * CL10	DEC ASL STA CMP BEQ	A B	CL10  ACIAUC+1  #'R PRNTRG	SKIP ZERO
0078 0078 0078 0078 0078 0078 0079 0079	FB92 FB94 FB95 FB96 FB99 FB98 FB9B	27 4A 48 B7 C1 27	<ul><li>Ø5</li><li>F1Ø7</li><li>52</li><li>44</li><li>47</li></ul>	28 <b>03</b> 48 * CL10	DEC ASL STA CMP BEQ	A B	CL10  ACIAUC+1  #'R PRNTRG	PRINT REGISTERS?
0078 0078 0078 0078 0078 0078 0079 0079	FB92 FB94 FB95 FB96 FB99 FB98 FB9D FB9F	27 4A 48 B7 C1 27	<ul><li>Ø5</li><li>F1Ø7</li><li>52</li><li>44</li><li>47</li><li>B5</li></ul>	28 <b>03</b> 48 * CL10	DEC ASL STA CMP BEQ CMP	A B	CL10  ACIAVC+1  #'R PRNTRG  #'G	PRINT REGISTERS?  GOTO PROGRAM?
0078 0078 0078 0078 0078 0078 0079 0079	FB92 FB94 FB95 FB96 FB99 FB98 FB9D FB9F	27 4A 48 B7 C1 27 C1 26	<ul><li>Ø5</li><li>F1Ø7</li><li>52</li><li>44</li><li>47</li><li>B5</li><li>FA82</li></ul>	28 <b>03</b> 48 * CL10	DECASE STA	A B B	CL10  ACIAUC+1  #'R PRNTRG  #'G CONTRL	PRINT REGISTERS?  GOTO PROGRAM?
0078 0078 0078 0078 0078 0078 0079 0079	FB92 FB94 FB95 FB96 FB99 FB98 FB9D FB9F	27 4A 48 B7 C1 27 C1 26	<ul><li>Ø5</li><li>F1Ø7</li><li>52</li><li>44</li><li>47</li><li>B5</li><li>FA82</li></ul>	28 <b>03</b> 48 * CL10	DECASL STA CMP BEQ CMP BNE JSR	A B B	CL10  ACIAUC+1  #'R PRNTRG  #'G CONTRL  INCH	PRINT REGISTERS?  GOTO PROGRAM? NO VALID COMMAND
0078 0078 0078 0078 0078 0079 0079 0079	FB92 FB94 FB95 FB96 FB99 FB98 FB9F FB9F	27 4A 48 B7 C1 27 C1 26 BD 81	05 F107 52 44 47 B5 FA82 0D	28 <b>03</b> 48 * CL10	DECASL STA CMP BEQ CMP BNE JSR CMP	A B B	CL10  ACIAVC+1  #'R PRNTRG  #'G CONTRL  INCH #\$ØD	PRINT REGISTERS?  GOTO PROGRAM?
0078 0078 0078 0078 0078 0079 0079 0079	FB92 FB94 FB95 FB96 FB99 FB98 FB9F FB9F FBA1 FBA4 FBA6	27 4A 48 B7 C1 27 C1 26 BD 81	05 F107 52 44 47 B5 FA82 0D	* CL10 *	DECASL STA CMP BEQ CMP BNE JSR	A B B	CL10  ACIAUC+1  #'R PRNTRG  #'G CONTRL  INCH	PRINT REGISTERS?  GOTO PROGRAM? NO VALID COMMAND
0078 0078 0078 0078 0078 0079 0079 0079	FB92 FB94 FB95 FB96 FB99 FB98 FB9F FB9F FBA1 FBA4 FBA6	27 4A 48 B7 C1 27 C1 26 BD 81 27	<ul> <li>Ø5</li> <li>F1Ø7</li> <li>52</li> <li>44</li> <li>47</li> <li>B5</li> <li>FA82</li> <li>ØD</li> <li>17</li> </ul>	28 <b>03</b> 48 * CL10	DECASE STA  CMP BEQ  CMP BNE  JSR CMP BEQ	A B B	ACIAVC+1  #'R PRNTRG  #'G CONTRL  INCH #\$ØD CONTIN	PRINT REGISTERS?  GOTO PROGRAM? NO VALID COMMAND  CONTINUE?
0078 0078 0078 0078 0078 0079 0079 0079	FB92 FB94 FB95 FB96 FB99 FB98 FB97 FB97 FB96 FB96 FB96 FB96 FB96 FB96 FB96	27 4A 48 B7 C1 27 C1 26 BD 81 27	<ul><li>Ø5</li><li>F1Ø7</li><li>52</li><li>44</li><li>47</li><li>B5</li><li>FA82</li><li>ØD</li><li>17</li><li>FAEA</li></ul>	* CL10 *	DECASE STA  CMP BEQ  CMP BNE  JSR CMP BEQ  JSR	A B B	ACIAVC+1  #'R PRNTRG  #'G CONTRL  INCH #\$ØD CONTIN  INHEX+2	PRINT REGISTERS?  GOTO PROGRAM? NO VALID COMMAND  CONTINUE?
0078 0078 0078 0078 0078 0078 0079 0079	FB92 FB94 FB95 FB96 FB99 FB98 FB97 FB44 FBA6 FBA8 FBA8	27 4A 48 B7 C1 27 C1 26 BD 81 27 BD BD	<ul><li>Ø5</li><li>F1Ø7</li><li>52</li><li>44</li><li>47</li><li>B5</li><li>FA82</li><li>ØD</li><li>17</li><li>FAEA</li><li>FA95</li></ul>	* CL10 *	DECASE STA  CMP BEQ  CMP BNE  JSR CMP BEQ  JSR JSR	A B B	CL10  ACIAVC+1  #'R PRNTRG  #'G CONTRL  INCH #\$0D CONTIN  INHEX+2 BYTE+2	PRINT REGISTERS?  GOTO PROGRAM? NO VALID COMMAND  CONTINUE?
0078 0078 0078 0078 0078 0078 0079 0079	FB92 FB94 FB95 FB96 FB99 FB98 FB96 FB96 FB96 FB46 FBA6 FBA8 FBA8	27 4A 48 B7 C1 27 C1 26 BD 81 27 BD BD BD	<ul> <li>Ø5</li> <li>F1Ø7</li> <li>52</li> <li>44</li> <li>47</li> <li>B5</li> <li>FA82</li> <li>ØD</li> <li>17</li> <li>FAEA</li> <li>FA95</li> <li>FA87</li> </ul>	* CL10 *	DECASE STA CMP BEQ CMP BNE CMP BEQ JSR JSR JSR	A B B	CL10  ACIAVC+1  #'R PRNTRG  #'G CONTRL  INCH #\$ØD CONTIN  INHEX+2 BYTE+2 BADDR+2	PRINT REGISTERS?  GOTO PROGRAM? NO VALID COMMAND  CONTINUE?
0078 0078 0078 0078 0078 0079 0079 0079	FB92 FB94 FB95 FB96 FB99 FB98 FB97 FB97 FBA4 FBA6 FBA8 FBA8 FBA8 FBA8	27 4A 48 B7 C1 27 C1 26 BD 81 27 BD BD BD CE	<ul> <li>Ø5</li> <li>F1Ø7</li> <li>52</li> <li>44</li> <li>47</li> <li>B5</li> <li>FA82</li> <li>ØD</li> <li>17</li> <li>FAEA</li> <li>FA95</li> <li>FA87</li> <li>F114</li> </ul>	* CL10 *	DECASL STA CMP BEQ CMP BNE USR CMP BEQ USR USR USR USR USR USR USR	A B B	CL10  ACIAVC+1  #'R PRNTRG  #'G CONTRL  INCH #\$ØD CONTIN  INHEX+2 BYTE+2 BADDR+2 #XHI	PRINT REGISTERS?  GOTO PROGRAM? NO VALID COMMAND  CONTINUE?  GET START ADDRESS
0078 0078 0078 0078 0078 0079 0079 0079	FB92 FB94 FB95 FB96 FB99 FB98 FB97 FB97 FB4 FBA6 FBA8 FBA8 FBA8 FBA8 FBA8	27 4A 48 B7 C1 27 C1 26 BD 81 27 BD BD BD CE A6	<ul> <li>Ø5</li> <li>F1Ø7</li> <li>52</li> <li>44</li> <li>47</li> <li>B5</li> <li>FA82</li> <li>ØD</li> <li>17</li> <li>FAEA</li> <li>FA95</li> <li>FA87</li> <li>F114</li> <li>ØØ</li> </ul>	* CL10 *	DECASE STA  CMP BEQ  CMP BNE  JSR CMP BEQ  JSR JSR JSR LDX LDA	A B B A A	CL10  ACIAVC+1  #'R PRNTRG  #'G CONTRL  INCH #\$ØD CONTIN  INHEX+2 BYTE+2 BADDR+2 #XHI X	PRINT REGISTERS?  GOTO PROGRAM? NO VALID COMMAND  CONTINUE?
0078 0078 0078 0078 0078 0079 0079 0079	FB92 FB94 FB95 FB96 FB99 FB99 FB97 FB97 FB97 FB96 FB96 FB96 FB98 FB96 FB98 FB98 FB98 FB98 FB98 FB98 FB98 FB98	27 4A 48 B7 C1 27 C1 26 BD 81 27 BD BD CE A6 E6	<ul> <li>Ø5</li> <li>F1Ø7</li> <li>52</li> <li>44</li> <li>47</li> <li>B5</li> <li>FA82</li> <li>ØD</li> <li>17</li> <li>FAEA</li> <li>FA95</li> <li>FA87</li> <li>F114</li> <li>ØØ</li> <li>Ø1</li> </ul>	* CL10 *	DECASE STA  CMP BEQ  CMP BNE  JSR CMP BEQ  JSR JSR LDX LDA LDA	AA B B A AB	ACIAVC+1  #'R PRNTRG  #'G CONTRL  INCH #\$ØD CONTIN  INHEX+2 BYTE+2 BADDR+2 #XHI X 1,X	PRINT REGISTERS?  GOTO PROGRAM? NO VALID COMMAND  CONTINUE?  GET START ADDRESS
0078 0078 0078 0078 0078 0078 0079 0079	FB92 FB94 FB95 FB96 FB99 FB98 FB97 FB97 FB44 FB46 FB46 FB46 FB84 FB84 FB84 FB86 FB88	27 4A 48 B7 C1 27 C1 26 BD 81 27 BD BD CE A6 E6 FE	F107 52 44 47 B5 FA82 ØD 17 FAEA FA95 FA87 F114 ØØ 01 F112	* CL10 *	DECASE STA  CMP BEQ  CMP BNE  JSR CMP BEQ  JSR JSR JSR LDX LDA	AA B B A AB	CL10  ACIAVC+1  #'R PRNTRG  #'G CONTRL  INCH #\$ØD CONTIN  INHEX+2 BYTE+2 BADDR+2 #XHI X	PRINT REGISTERS?  GOTO PROGRAM? NO VALID COMMAND  CONTINUE?  GET START ADDRESS
0078 0078 0078 0078 0078 0078 0079 0079	FB92 FB94 FB95 FB96 FB99 FB98 FB97 FB97 FB44 FB46 FB46 FB84 FB84 FB84 FB84 FB88 FB88 FB88	27 4A 48 B7 C1 27 C1 26 BD 81 27 BD BD CE A6 E6 FE A7	05 F107 52 44 47 B5 FA82 0D 17 FAEA FA95 FA87 F114 00 01 F112 06	* CL10 *	DECASE STA  CMP BEQ  CMP BNE  JSR CMP BEQ  JSR JSR LDX LDA LDA	AA B B A AB.	ACIAVC+1  #'R PRNTRG  #'G CONTRL  INCH #\$ØD CONTIN  INHEX+2 BYTE+2 BADDR+2 #XHI X 1,X	PRINT REGISTERS?  GOTO PROGRAM? NO VALID COMMAND  CONTINUE?  GET START ADDRESS GET ADDRESS IN A, B
0078 0078 0078 0078 0078 0078 0079 0079	FB92 FB94 FB95 FB96 FB99 FB98 FB97 FB97 FB44 FB46 FB46 FB84 FB84 FB84 FB84 FB84 FB88 FB88 FB88	27 4A 48 B7 C1 27 C1 26 BD 81 27 BD BD CE A6 E6 FE A7	05 F107 52 44 47 B5 FA82 0D 17 FAEA FA95 FA87 F114 00 01 F112 06	* CL10 *	DECASE STA  CMP BEQ  CMP BNE  JSR CMP BEQ  JSR JSR JSR LDX LDA LDA LDA LDX	AA B B A AB A	ACIAVC+1  #'R PRNTRG  #'G CONTRL  INCH #\$ØD CONTIN  INHEX+2 BYTE+2 BADDR+2 #XHI X 1, X TSP	PRINT REGISTERS?  GOTO PROGRAM? NO VALID COMMAND  CONTINUE?  GET START ADDRESS GET ADDRESS IN A, B
0078 0078 0078 0078 0078 0078 0079 0079	FB92 FB94 FB95 FB96 FB99 FB98 FB97 FB44 FB46 FB46 FB46 FB84 FB84 FB84 FB86 FB88 FB88 FB88 FB88	27 4A 48 B7 C1 27 C1 26 BD 81 27 BD BD CE A6 E6 FE A7 E7	05 F107 52 44 47 B5 FA82 0D 17 FAEA FA95 FA87 F114 00 01 F112 06 07	* CL10 *	DECASE STA  CMP BEQ  CMP BNE  JSR CMP BEQ  JSR JSR JSR LDX LDA LDA LDX STA STA	AA B B A AB A	ACIAVC+1  #'R PRNTRG  #'G CONTRL  INCH #\$ØD CONTIN  INHEX+2 BYTE+2 BADDR+2 #XHI X 1, X TSP 6, X	PRINT REGISTERS?  GOTO PROGRAM? NO VALID COMMAND  CONTINUE?  GET START ADDRESS GET ADDRESS IN A, B
0078 0078 0078 0078 0078 0078 0079 0079	FB92 FB94 FB95 FB96 FB99 FB99 FB97 FB97 FB97 FB97 FB98 FB98 FB98 FB98 FB98 FB98 FB98 FB98	27 4A 48 B7 C1 27 C1 26 BD 81 27 BD BD CE A6 E6 FE A7 E7	<ul> <li>Ø5</li> <li>F1Ø7</li> <li>52</li> <li>44</li> <li>47</li> <li>B5</li> <li>FA82</li> <li>ØD</li> <li>17</li> <li>FAEA</li> <li>FA95</li> <li>FA87</li> <li>F114</li> <li>Ø0</li> <li>Ø1</li> <li>F112</li> <li>Ø6</li> <li>Ø7</li> <li>F112</li> </ul>	* CL10 *	DECASE STA  CMP BEQ  CMP BNE  JSR CMP BEQ  JSR JSR JSR LDX LDA LDA LDX STA STA	AA B B A AB A	ACIAVC+1  #'R PRNTRG  #'G CONTRL  INCH #\$ØD CONTIN  INHEX+2 BYTE+2 BADDR+2 #XHI X 1, X TSP 6, X	PRINT REGISTERS?  GOTO PROGRAM? NO VALID COMMAND  CONTINUE?  GET START ADDRESS GET ADDRESS IN A,B  MODIFY RETURN ADDRESS ON STAC
0078 0078 0078 0078 0078 0078 0079 0079	FB92 FB94 FB95 FB96 FB99 FB98 FB97 FB44 FB46 FB46 FB46 FB84 FB84 FB84 FB86 FB88 FB88 FB88 FB88	27 4A 48 B7 C1 27 C1 26 BD 81 27 BD BD CE A6 E6 FE A7 E7	<ul> <li>Ø5</li> <li>F1Ø7</li> <li>52</li> <li>44</li> <li>47</li> <li>B5</li> <li>FA82</li> <li>ØD</li> <li>17</li> <li>FAEA</li> <li>FA95</li> <li>FA87</li> <li>F114</li> <li>Ø0</li> <li>Ø1</li> <li>F112</li> <li>Ø6</li> <li>Ø7</li> <li>F112</li> </ul>	* CL10 *	DECASE STA  CMP BEQ  CMP BNE  JSR CMP BEQ  JSR JSR JSR LDX LDA LDA LDX STA STA	AA B B A AB A	ACIAVC+1  #'R PRNTRG  #'G CONTRL  INCH #\$ØD CONTIN  INHEX+2 BYTE+2 BADDR+2 #XHI X 1,X TSP 6,X 7,X	PRINT REGISTERS?  GOTO PROGRAM? NO VALID COMMAND  CONTINUE?  GET START ADDRESS GET ADDRESS IN A, B

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00811 FBC5 3B
                                RTI
                                            AND RUN
                       ************
                                             GET SUB COMMAND
                        CMP A #'H
                                               PUNCH?
                           BEQ PUNCH
CMP A #'T PRINT
BNE *+5 NOT VA
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                                       PRINT
                               BRA CONTRL
                         ************
                                               SAVE USER STACKPOINTER
                              TST 6,X DECREMENT 'PC'
BNE *+4
00826 FBDB 26 02

BNE *+4

00827 FBDD 6A 05

DEC 5,X

00828 FBDF 6A 06

DEC 6,X

# CSTOCK

00830 FBE1 8D 03 PRNTRG BSR PRTREG PRINT USER REGISTERS

00831 FBE3 7E FB56 C4

00832

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00832 FBE6 FE F110 PRTPEC LPX

TST 6,X

DECREMENT PC.
   00833 FBE6 FE F112 PRTREG LDX
   00834 FBE9 08
   00835 FBEA BD FB12
00836 FBED BD FB12
      00843
      00844 FBFF 7E FD24 INCH1 JMP INEEE
                                               STEPPING STONE
      00845
      00846 FC02 86 14 PNHOFF LDA A #$14
                                               DC4
      00847 FC04 7E FD0D OUTCH1 JMP OUTEE
                                              +RTS
      00848
      00849 FC07 86 13
                        RDROFF LDA A
                                      #$13
                                               DC3
      00850 FC09 8D F9
                               BSR
                                      OUTCH1
      00851 FC0B B6 F11B ECHO
                             LDA A STATUS
      00852 FC0E 84 7F AND A #$7F
                                               CLEAR BIT
      00853 FC10 B7 F11B ECHO1 STA A STATUS
      00854 FC13 39
                               RTS
      00855
                        *************
     00856
     00857 FC14 PUNCH EQU *
     00858 FC14 8D 6C BSR SADDR VERIFY BEGA AND FNDA
00859 FC16 CE FFC2 LDX #MTAPE4 X= STRING
00860 FC19 BD FAAD JSR PDATA1
00861 FC1C BD FA82 JSR INCH WAIT
                          JSR INCH WAIT
JSR PNHTRL GO PUNCH LEADER
     00862 FC1F BD FD4D
     00864 FC22 FE F10C PUN35 LDX BEGA
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00865 FC25 FF F110 STX
                                                                                      TW
 00866 FC28 B6 F10F PUN11 LDA A ENDA+1

      00867 FC2B BØ F111
      SUB A TW+1

      00868 FC2E F6 F10E
      LDA B ENDA

      00869 FC31 F2 F110
      SBC B TW

      00870 FC34 26 Ø4
      BNE PUN22

      00871 FC36 81 10
      CMP A #16

      00872 FC38 25 Ø2
      BCS PUN23

                                                                                                        DIFF >16
 00872 FC38 25 02
                                                                     BCS
                                                                                        PUN23
00873

        00889 FC5B 8D 20
        BSR
        PUNT2

        00890 FC5D FE F110
        LDX
        TW
        DATA POINTER

        00891 FC60 8D 1B
        PUN32 BSR
        PUNT2

        00892 FC62 7A F117
        DEC
        TEMP1 DECR.BYTE COUNT

        00893 FC65 26 F9
        BNE PUN32 LOOP UNTIL DONE

        00894 FC67 FF F110
        STX
        TW
        SAVE POINTER

        00895 FC6A 53
        COM B
        MAKE 1'S COMPLEN

        00897 FC6B 37
        PSH B

                                                                                                           MAKE 1'S COMPLEMENT
         00897 FC6C 30
00898 FC6D 8D 0E
                                                                      TSX
        00899 FC6F 33
00900 FC70 39
                                                               BSR PUNT2
                                                                                                          RESTORE STACK
                                                                      RTS
              00901
              00902 FC71 FE F110 PUN50 LDX
                                                                                       TW
              00903 FC74 09
                                               DEX

      00904 FC75 BC F10E
      CPX ENDA

      00905 FC78 26 AE
      BNE PUN11

      00906 FC7A 7F FD57
      IMP PNCHTR

                                                                                                         FINISHED?
                                                                     JMP PNCHTR PUNCH TRAILER
              00906 FC7A 7E FD57
              00907
              00908 FC7D EB 00 PUNT2 ADD B X UPDATE CHECKSUM 00909 FC7F 7E FB05 JMP OUT2H PUNCH 2HEX +RTS
              00910
                                                        ************
              00911
              00912 FC82 CE FF9D SADDR LDX #STRG1 BFGA STRING

      00913 FC85 BD FAAD
      JSR PDATA1

      00914 FC88 CE F10C
      LDX #BEGA PRINT COMPANDED

      00915 FC8B BD FB10
      JSR OUT4HS

      00916 FC8E BD FD24
      JSR INEEE ALTFR?

      00917 FC91 81 20
      CMP A #$20

      00918 FC93 26 06
      BNE *+8

                                                                                                         PRINT OLD
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JSR BADDR
      88328 FC35 BD FA85
                                        GET NEW
155 45 7
                          STX BEGA STORE IT
LDX #STRG2 ENDA STRING
      00921 FC9B CE FFA7
      00922 FC9E BD FAAD
                           JSR PDATA1
      00923 FCA1 CE F10E LDX
                                 #ENDA
      00924 FCA4 BD FB10 JSR
                                OUT4HS
                                        PRINT OLD
      00925 FCA7 BD FD24 JSR INFER
00926 FCAA 81 20 CMP A #$20
                                  INFEE
                                         ALTER?
      00927 FCAC 26 06
                       BNE
JSR
                                  *+8
      00928 FCAE BD FA85
                                 BADDR
                                         GET NEW
                      STX
      00929 FCB1 FF F10E
                                  ENDA
                                         SAVE IT
      00930 FCB4 39
                         RTS
      00931
                      *************
      00932
                     *
                    PRINT BSR SADDR
      00933 FCB5 8D CB
                                         FROM TOO
00934 FCB7 FE F10C LDX
                                 BEGA
      00936 FCBD BD FAA5 USB
                                 TW
                           JSR
                                  OUTSTG
                                         OUTPUT CRLF
      00937 FCC0 CE F110
                         LDX #TW
                         JSR
      00938 FCC3 BD FB10
      00939 FCC6 FE F110
                                  OUT4HS
                                         CUTPUT ADDRESS ON EACH LINE
                        LDX
                                  TW
                                         DATA POINTER
      00940 FCC9 C6 10
                          LDA B #16
                                        BYTE COUNT
      00941 FCCB A6 00 PRT1 LDA A
                                 X
                                         GET DATA
      00942 FCCD BD FB12
                           JSR
                                  OUT2HS
                                         OUTPUT BYTE
      00943 FCD0 5A
                           DEC B
                                         UNTIL
      00944 FCD1 26 F8
                           BNE
                                  PRT1
                                         DONE
                         LDX
      00945 FCD3 FE F110
                                  TW
                        LDA B #16
      00946 FCD6 C6 10
      00947 FCD8 A6 00 PRT2 LDA A X
      00948 FCDA 8D 1C
                           BSR
                                  SELCAR
                                         SAME IN ASCII
      00949 FCDC 08
                           INX
      00950 FCDD 5A
                          DEC B
      00951 FCDE 26 F8
                          BNE
                                 PRT2
      00952 FCE0 FF F110
                                 TW
                                         CHECK DONE
                          LDA A
                                 ENDA+1
                                 TW + 1
      00955 FCE9 F6 F10E
                          LDA B
                                 ENDA
      00956 FCEC F2 F110
                          SBC B
                                 TW
      00957 FCEF 24 CC
                          BCC
                                 PRINT+8 NOT YET
                        CMP A
BGE
      00958 FCF1 81 00
                                 #0
      00959 FCF3 2C C8
                                 PRINT+8
                                         NOT YET
                       JMP
      00960 FCF5 7E FB56
                                 CONTRL READY
      00961
                      ************
      00962
                     *
      00963 FCF8 81 20
                     SELCAR CMP A #$20
                                        , < SPACE?
      00964 FCFA 25 06
                           BCS
                                 PRT3
      00965 FCFC 81 60
                           CMP A #$60
                                         > '\'
      00966 FCFE 24 02
                           BCC
                                 PRT3
      00967 FD00 20 02
                               PRT4
                           BRA
      00968
      00969 FD02 86 2E
                     PRT3 LDA A # .
                                        CONVERT CHAR
                     PRT4 BRAC OUTEE +RTS
      00970 FD04 20 07
     00971
                     *************
      00972
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00973 FD06 8D 1C
                      INCMD BSR
                                 INEEE
                                         CHAR @-\ ?
00974 FD08 85 40
                          BIT A #$40
     00975 FD0A 27 FA
                                  INCMD NOT YET
                          BEQ
     00976 FD0C 39
                          RTS
     00977
                     ************
     00978
                      *
                      OUTEE PSH B
     00979 FDØD 37
                                         SAVE B
     00980 FD0E 3F
                      FCB $3F,05 PSHX
     00981
37:11
     00982 FD10 FE F10A
                         LDX
                                 OTSWTC GET SWITCH VECTOR
     00983 FD13 6E 00
                            JMP
                                  X
    00984
     00985 FD15 FE F106 OTCR LDX
                                  ACIAVC
                                          GET DEVICE VECTOR
                           LDA B X
     00986 FD18 E6 00
                      OT1
                                          TRANSMITTER EMPTY?
     00987 FD1A 57
                            ASR B
5.
     00988 FD1B 57
                           ASR B
     00989 FD1C 24 FA
                         BCC
                                 OTI
(533
(503
(503)
     00990 FD1E A7 01
                         STA A 1,X
                                          WRITE DATA
     00991
     00992 FD20 3F
                    RET2
                          FCB $3F,06 PULX
     00993 FD22 33
                           PUL B
                         RTS
     00994 FD23 39
                     RET1
     00995
                     ************
   00996
     00997 FD24 8D 13 INEEE BSR
                                 INPUT
     00998 FD26 84 7F
                                 #$7F
                                         STRIP PARITY
                           AND A
                           CMP A #$7F
                                        RUPOUT?
     00999 FD28 81 7F
     01000 FD2A 27 F8
                           BEQ
                                 INEEE
     01001 FD2C 81 60
                           CMP A #$60
                                         CAPTST
                          BLS
     01002 FD2E 23 02
                                 *+4
     01003 FD30 84 5F
                                         CONVERT TO CAPS
                           AND A #$5F
     01004 FD32 7D F11B
                                         ECHO?
                           TST
                                 STATUS
     01005 FD35 2B EC
                           BMI
                                 RET1
                                         NO
     01006 FD37 20 D4
                        BRA
                                 OUTEE GO ECHO
     01007
     01008 FD39 37 INPUT PSH B
     01009 FD3A 3F
                           FCB
                                 $3F,05 PSHX
     01010 FD3C FE F108
                                 INSWTC
                           LDX
                                         GET SWITCH VECTOR
     01011 FD3F 6E 00
                           JMP
                                  X
     01012
     01013 FD41 FE F106 INCR LDX ACIAVC GET DEVICE VECTOR
     01014 FD44 E6 00 IN1 LDA B
                                 X
                                         RECEIVER FULL?
     01015 FD46 57
                           ASR B
     01016 FD47 24 FB
                           BCC
                                  INI
     01017 FD49 A6 01
                          LDA A
                                  1 . X
                                         GET DATA
                                 17 310
     01018
                        DDA.
     01019 FD4B 20 D3.
                           BRA
                                  RET2
     01020
                      *************
     01021
     01022 FD4D C6 32
                                        PUNCH 10 INCHES BLANK TAPE
                     PNHTRL LDA B #50
     01023 FD4F 4F
                           CLR A
     01024 FD50 BD FA7F PL1
                                  CUTCH
                           JSR
                                        PUNCH
     01025 FD53 5A
                           DEC B
     01026 FD54 26 FA
                           BNE
                                 PL1
```

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```
01027 FD56 39
                           RTS
     01028
      01029 FD57 CE FFB9 PNCHTR LDX #MTAPE3 TRAILER STRING
      01030 FD5A BD FAAD JSR PDATA1
01031 FD5D 8D EE BSR PNHTRL
      01031 FD5D 8D EE
01032
01033 FD5F 7E FB56 C5 JMP CONTRL
                        ***********
     01034
     01035
     01036 FD62 BD FC82 OFFSET JSR SADDR FROM-TOO

      01037 FD65 BD FAA5
      JSR

      01038 FD68 FE F10C
      LDX

      01039 FD6B 08
      INX

      01040 FD6C 08
      INX

                                      OUTSTG
3237 01038 FD68 FE F10C
                                       BEGA
                                                GET FROM
   01040 FD6C 08 INX
01041 FD6D FF F110 STX TW
01042 FD70 4F CLR A
                                               COUNTER
61043 FD71 BC F10E OF1L CPX ENDA
61044 FD74 27 19 BEQ OFFFIN
61045 FD76 08 INX
                                                DONE?
                              INX
01046 FD77 4C
                               INC A
  01047 FD78 2A F7
                            BPL
                                       OFIL
01048 FD7A 4F
                              CLR A
01048 FD7A 4F CLR A
01049 FD7B FE F110 LDX
                                      TW
01050 FD7E BC F10E OF2L CPX
01051 FD81 27 0C BEQ
01052 FD83 09
                                       ENDA
                                       OFFFIN
                                               DONE
01052 FD83 09
                               DEX
01053 FD84 4A
                              DEC A
                       BMI OF2L
01054 FD85 2B F7
                              LDX #INULD NOT VALID MESS
01056 FD87 CE FFE4
01057 FD8A BD FAAD JSR
01058 FD8D 20 D0 BRA
01059 *
                                       PDATAL
                                               GOTO MONITOR
                                       C5
    01060 FD8F 36 OFFFIN PSH A
01061 FD90 30 TSX
01061 FD90 30
01062 FD91 BD FB05
01063 FD94 32
                               JSR OUT2H
                               PUL A
      01063 FD94 32
                                               RESTORE STACK
      01064 FD95 20 C8
                               BRA C5
      01065
                         ***********
  01066
                         *
     01067 FD97
                         TRACE EQU
     01068 FD97 86 2D
      01069 FD99 BD FA7F .ISB
                                      # -
                                              PROMPT
                               JSR OUTCH
JSR INCMD GET COMMAND
      01070 FD9C BD FD06
                               CMP A #'R
      01071 FD9F 81 52
                                               RESET TRACE?
      01072 FDA1 26 05
                               BNE
                                       *+7
      01073 FDA3 7F F004
                               CLR
                                      TRACAD LOCK COUNTER
                                               GOTO MONITOR
      01074 FDA6 20 B7
                               BRA
                                      C5
      01075
                                CMP A # C
      01076 FDA8 81 43
                                               ONE INSTRUCTION?
      01077 FDAA 27 1D
                               BEQ
                                      TRACE1
       01078
       01079 FDAC 81 53
01080 FDAE 26 E5
                               CMP A # S
                                               MULTIPLE INSTR. ?
                              BNE *-25
```

	100				
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```
01081 FDB0 BD FA93
                           JSR
                                   BYTE
                                            GET INSTR. COUNT
01082 FDB3 B7 F11C
                           STA A
                                   TRSCNT
                                            SAVE IT
Ø1083 FDB6 20 06
                           BRA
01084
                    ***********
01085 FDB8 BF F112 TRACYC STS
                                   TSP
                                            ENTRY ON TRACE
01086 FDBB BD FAA5
                           JSR
                                   OUTSTG
                                            CUTPUT CRLF
01087 FDBE BD FBE6
                           JSR
                                  PRTREG
                                            PRINT REGISTERS
Ø1088 FDC1 7D F11C
                           TST
                                   TRSCNT
                                            DONE?
01089 FDC4 27 D1
                           BEQ
                                   TRACE
01090 FDC6 7A F11C
                           DEC
                                  TRSCNT
                                            NEXT INSTR.
01091 FDC9 CE FDB8 TRACE1 LDX
                                   #TRACYC
                                            SET NMI VECTOR
01092 FDCC FF F102
                           STX
                                  NIO
01093 FDCF 7C F004
                           INC
                                   TRACAD
                                            UNLOCK COUNTER
01094 FDD2 7E FBBF
                          JMP
                                  CONTIN
                                            AND GO
01095
                    **************
01096
01097
01098
                     DISCIO SOFTWARE
01100
                   * CALLING SEQUENCE LDX CHANNELTBL ADDR'
01101
01102
                   * JSR DISCIO
01103
           ØØØE
                   CTBSH
                          EQU
                                  14
                                           BEGINNING SECTOR HIGH
01113
           000F
                                           ,,
                          EQU
                                  15
                   CTBSL
                                                         LOW
                                                    ,,
01114
           0010
                   CTLSH EQU
                                  16
                                           LAST SECTOR OPTD. ON HIGH
W1115
           0011
                   CTLSL
                          EQU
                                  17
                                           oo oo oo LOW
01N6
           0012
                   CTBPH
                          EQU
                                  18
                                           BUFFER POINTER HIGH
01117
           0013
                   CTBPL
                          EQU
                                  19
                                              ,,
                                                         LOW
                                           ,,
01118
           0014
                   CTDC
                          EQU
                                  20
                                           DISC I/O COMMAND
01119
                                  21
           0015
                                           DRIVE # (HEAD)
                   CTDR
                          EQU
01120
           0016
                   CTNSH
                          EQU
                                  22
                                           NEXT SECTOR HIGH
01121
           00 N
                   CTNSL
                          EQU
                                  23
                                           ee ee
01122
           0018
                                  24
                   CTBAH
                          EQU
                                           BUFFER ADDRESS HIGH
01123
                                                   s. LOW
           0019
                   CTBAL
                          EQU
                                  25
                                           ,,
01124
           001A
                   CIST
                          EQU
                                  26
                                           DISC WO STATUS
01125
01126
          6800
                   FORMAD EQU
                                  $6800
                                           FORMATTER ADDRESS
01127
           6801
                   DRIVAD EQU
                                  $6801
                                           DRIVE ADDRESS
01128
           6000
                   RWFIFO EQU
                                  $6000
                                           READ / WRITE FIFC
01129
01130
          0080
                   CONSEL EQU
                                           CONTOL SELECT
01131
                                  $40
           0040
                   DIFSEL EQU
                                           DIFFERENCE SELECT
01132
           0020
                                  $20
                   HEDSEL EQU
                                           HEAD SELECT
                                  $04 02
01133
          0004
                          EQU
                                           READ COMMAND DRIVE
                   RDCMD
01134
                          PQU
          0011
                   WICMD
                                  $11
                                           WRITE COMMAND DRIVE
01135
                          EQU &
                                  $40
          0040
                   RTHS
                                           RETURN HOME SEEK DRIVE
                   READC
01136
          0003
                          EQU
                                  $03
                                           FORMATTER READ COMM
01137
          0002
                   WRITC
                          EQU
                                  $02
                                           FORMATTER WRITE COMM
01138
          0004
                   FWDSK
                          EQU
                                  504
                                           FORWARD SEEK DRIVE
01139
                   RUSSK
           0020
                          EQU
                                  $20
                                           REVERSE SEEK DRIVE
01140
01141
           PDD5
                   DISCIO EQU
01142 FDD8 37
                          PSH B
01143 FDD6 3F
                          FCB
                                  $3F,05
                                           PSHX
01144 FDD8 A6 14
                          LDA A
                                  CTDC, X
                                           GET CCMMAND
01145 FDDA 81 02
                          CMP A
                                  #2 RDCmp
                                           VALID COMMAND?
```

				133 00	
					70111
					PRESENT
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		14,000			
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		00.4			
	28	11/07	0.575		
	0.5				20160
		-001	40,00	A 100	
		200			99719
			1	Column	
Station statement		100	-		
2575 9710 1 254					
	1				
	Link	31162			
	1				
	2300	-			
			10/57		
			× 100		
				A - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
		- 16.8			
		- 110			
		1201			
					Same of the Land

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00001
                                                                      NAM
                                                                                     KEEBUG2
              00002
                                                                        OPT
                                                                                      O,S,NOG
           00003
                                                      * BY C.SCHCENMAKERS DATE 79 04 28
           ****ERROR 210
              00098 F83F CB AD
01097
                                                                        ADDB
                                                                                       #DSPTAB
  01097
(01098)
                                                                                     L
                                                                        OPT
01098
01099
01100
01101
01102
01104
                                             * DISCIO SOFTWARE
                                                   * CALLING SEQUENCE LDX CHANNELTEL ADDR
                                                        * JSR DISCIO
          01105
* CHANNEL TABLEDEF
** CHAN
                                                        * CHANNEL TABLEDEFINITIONS
                                                     CTCTH EQU Ø CHANNEL TABLE ADDRESS HIGH
                                                                                                         LOW ..
LAST SECTOR OPTD. ON HIGH
                                                                                                   PUEEED DOOR OF TO UN HI
          01117
01118
                                                        CTBPL EQU 19
                                   0014 CTDC EQU 20
0015 CTDR EQU 21
0016 CTNSH EQU 22
0017 CTNSL EQU 23
                                                                                                    DISC I/O COMMAND
                                                                                                    DRIVE # (HEAD)
 01119
              01120
                                                                                                       NEXT SECTOR HIGH
          01121
                                                                                                       ,, ,, LOW
                                     0018 CTBAH EQU 24
 01122
                                                                                                        BUFFER ADDRESS HIGH
                                   0019 CTBAL EQU 25
001A CTST EQU 26
              01123
                                                                                                        LOW ee
            01124
                                                                                                         DISC I/C STATUS
          01125
                                                      *
              01126
                                  6800 FORMAD EQU $6800 FORMATTER ADDRESS
6801 DRIVAD EQU $6801 DRIVE ADDRESS
6000 RWFIFO EQU $6000 READ / WRITE FIFO
              01127
              01128
                                  6000
              01129
                                                                                 $40 CONTOL SELECT
$40 DIFFERENCE SELECT
$20 HEAD SELECT
              01130
                                                        CONSEL EQU
                                   0080
               01131
                                     0040
                                                       DIFSEL EQU
                                  0020 HEDSFL EQU
               01132
                                                                                    $24 02 READ COMMAND DRIVE
                                     0004 RDCMD EQU
               01133
                                                                                     $11 WRITE COMMAND DRIVE
$40 RETURN HOME SEEK DRIVE
$03 FORMATTER READ COMM
               01134
                                                     WTCMD EQU
                                      0011
                                      0040 RTHS EQU
              01135
               01136
                                     0003 READC EQU
                                                                                     $02
                                                        WRITC EQU
               01137
                                                                                                         FORMATTER WRITE COMM
                                     0002
                                                        FWDSK EQU
                                  0004
               01138
                                                                                                         FORWARD SEEK DRIVE
                                                                                      $04
               01139
                                                                                                       REVERSE SEEK DRIVE
                                                                                     $20
                                     0020
                                                       RVSSK EQU
               01140
                                                        *
                            FDD5 DISCIO EQU
               01141
               01142 FDD5 37
                                                                       PSH B
               01143 FDD6 3F
                                                                       FCB
                                                                                      $3F,05 PSHX
               01144 FDD8 A6 14
                                                                       LDA A CTDC, X GET COMMAND
                                                                       CMP A #2 ROCMP VALID COMMAND?
               01145 FDDA 81 02
```

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TOB LY THE
                            WE WAS THE
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                            HOR
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ı									
į	01146	FDDC	23	08		BLS		DISCI	
	01147					LDA		# 1	SET STATUS ERROR 1
	01148	FDEØ	3F		DISRET	FCB		\$3F,06	PULX
	01149	FDE2	E7	1A	DSCERRT	STA	B	CTST, X	SET RETURN STATUS
ŧ	01150	FDE4	33			FUL	В		
	01151	FDE5	39			RTS			
7	01152				*				
2	01153	FDE6	4 D		DISC1	TST	A		RESET?
	01154	FDE7	26	43		BNE		DISC2	NO
	01155	FDE9	7F	6800		CLR		FORMAD	
ŧ	01156	FDEC	86	40		LDA	A	#RTHS	
f	01157				-	STA	A	DRIVAD	
	01158					LDA	A	#CONSEL	
1	01159					STA		FORMAD	
ì	01160					CLR		FORMAD	
E	01161					LDX		#500FF	
ı	01162					STX		CURCYL	SET CYL=0 HEAD=-1
	01163					LDA		#SØC	RESET READ+WRITE FIFO
4	01164					STA		FORMAD	
	01165					CLR		FORMAD	
	01166					BSR		CHECK	
	01167					BCC		RST1	A STATE OF THE STA
	Ø1168 Ø1169					LDA	В	#2	RESET ERROR
	01170			D1	DCTI	BRA	-	DISRET	2 m L m L m L m L m L m L m L m L m L m
	01171			CE	RST1 DR2	CLR	В	DICDET	STATUS OK
	01172	LLIU	20	CE	*	DNH		DISRET	
	01173		3F		CHECK	FCB		\$3F,05	PSHX
	01174	FE14	37		OnLon	PSH	В	201703	TSHA
	01175			5FFF		LDX		<b>#\$5FFF</b>	DELAY COUNT
	01176	FE18	F6	6801	CHK5	LDA	B	DRIVAD	DEBITE OCCUL
	01177	FE1B	C4	FØ		AND		#\$FØ	MASK OFF BITS
	01178	FEID	C8	70		EOR	B	#\$70	INVERT SOME
	01179	FEIF	27	08		BEQ		CHK4	
	01180	FE21	09			DEX			
	01181	FE22	26	F4		BNE		CHK5	
	01182	FE24	ØD			SEC			
	01183	FE25	33		CHR	PUL	B		
	01184	FE26	3F			FCB		\$3F,06	PULX
	01185	FES8	39			RTS			
	01186	FE29	ØC		CHK4	CLC			
	Ø1187 Ø1188	FE2A	20	F9		BRA		CHR	
		5500			*		T. C.		AND THE RESERVE OF TH
	01189	FFSC FFSC	A6	10	DISCS	LDA			GET CYLINDER
	01190	FEST	HD OF	FEA7		JSR		GETCYL	
	01192	LE31	25	45		BCS		CHERRT	GET HAMBED HEAD
	01193	FF35	HO	FFFG		LDA JSR	H	CTDR, X GETHED	GET WANTED HEAD
	01194	FESS	06	1/1			^		CET COMMOND
	01195	FF3A	81	95		LDA		CTDC,X #2	GET COMMAND READ?
	01196	FESC	26	03		BNE	H	*+5	YES
	01197	FESE	7 F	नवनन		JMP		WRTSEC	GO WRITE
	86119				*	01.1			OC WILLIE
	01199	FE41	C6	03	REDSEC	LDA	B	#3	TRY CCUNT
								AL IS	

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01200 FE43 F7 F123
                                                              STA B TRY
 01201 FE46 86 04 REDSC1 LDA A #$04 CLEAR READ FIFO
 01201 FE46 86 84 REDSCI LDA H #384 CLEHR REHD FIFO
01202 FE48 B7 6800 STA A FORMAD
01203 FE4B 7F 6800 CLR FORMAD
01204 FE4E A6 11 LDA A CTLSL,X GET WANTED SECTOR
01205 FE50 BD FF7C JSR CONSEC CONVERT TO PHYS SECT.
01206 FE53 8D 27 RED BSR READIS
01207 FE55 25 18 BCS RDERRT
01208 FE57 A6 18 LDA A CTBAH,X GET BUFFER
01216 FE68 Ø8 INX
01217 FE69 5A DEC B
01218 FE6A 26 F7 BNE RSWLP
01219 FE6C 7E FDEØ DR3 JMP DISRET
FINISHED
                                                                                            TRY AGAIN
                                                                            REDSC1
                                                            LDA B #3 ERROR
           01226 FE78 C6 05 CHERRT LDA B #5
         01227 FE7A 20 F0
                                                              BRA
                                                                             DR3
       01228

      01229 FE7C C6
      0402 READ1S LDA B #RDCMD READ COMMAND DRIVE

      01230 FE7E F7 6801 STA B DRIVAD
      STA B DRIVAD

      01231 FE81 F6 6800 R2S LDA B FORMAD READ ACTUAL SECTOR
      01232 FE84 C4 3F AND B #$3F

      01233 FE86 11 CBA IS IT THE WANTED?

      01233 FE86 11
      CBA
      IS IT THE WANTED?

      01234 FE87 26 F8
      BNE
      R2S

      01235 FE89 C6 03
      LDA B #READC
      FORMATTER READ COMM

      01236 FE8B F7 6800
      STA B FORMAD

      01237 FE8E BD FE12
      JSR CHECK

      01238 FE91 25 12
      BCS RER

           01239 FE93 F6 6800 BUSYR LDA B FORMAD

      01240 FE96 28 FB
      BMI
      BUSYR

      01241 FE98 C5 40
      BIT B
      #$40
      CRC FRRCR?

      01242 FE9A 26 09
      BNE
      RER

      01243 FE9C F6 6000
      LDA B
      RWFIFO
      SEARCH PREAMBLE

      01244 FE9F C1 55
      CMP B
      #$55

                                                  CMP B #$55
          01244 FE9F C1 55
01245 FFA1 26 02
                                                             BNE
                                                                            RER
                                      ROK CLC —
           01246 FEA3 0C
          01247 FEA4 39
                                            RER SEC
          01248 FEA5 0D
          01249 FEA6 39
                                                              RTS
          01250
                                               *
          01251 FEA7 36 GETCYL PSH A
          01252 FEA8 B1 F121 CMP A CURCYL IS CYLINDER THE SAME? 
01253 FEAB 27 30 BEQ SETT1 YES
          01253 FEAB 27 30
```

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NASS WILLIAM

```
10(1) 01272 FEDA 7F 6800 CLR FORMAD
10(1) 01273 FEDD 32 SETT1 PUL A
101274 FEDE B7 F121 STA A CURCYL
1010 01275 FEE1 BD FE12 JSR CHECK
101276 FEE4 25 01 BCS GETERR ERROR
101277 FEE6 0C CLC
101278 FEE7 39 GETERR RTS
101279 *
 61280 FEE8 36 GETHED PSH A
01291 ********
        01292
        01293 FEFE C6 03 WRTSEC LDA B #3 TRY COUNT
       01294 FF00 F7 F123 STA B TRY
       01295 FF03 C6 08 WRIT1 LDA B #8 CLEAR WRITE FIFO
         01296 FF05 F7 6800 STA B FORMAD CLR FORMAD
         01297 FF08 7F 6800
         01298 FF0B C6 10
                                        LDA B #16 MAKE SOME SPACE
LDA A CTLSL,X GET WANTED SECTOR
         01299 FF0D A6 11
01300 FF0F 36
01301 FF10 4F
                                                         SAVE IT A WHILE
                                       PSH A
                                             CLR A

      01302 FF11 B7 6000 WRIT2
      STA A RWFIFO

      01303 FF14 5A
      DEC B

      01304 FF15 26 FA
      BNE WRIT2

      01304 FF15 26 FA
      BNE
      WRIT2

      01305 FF17 C6 55
      LDA B #$55
      PREAMBLE

      01306 FF19 F7 6000
      STA B RWFIFO

      01307 FF1C E6 19
      LDA B CTBAL, X GET BUFFER ADDRESS
```

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CHIPPING
                           2-11 th 1522 10075
11172 19 al 17 4
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			1						
B	30.03		110				^	CTDAY Y	
	01308					LDA		CTBAH,	SET POINTER BEGIN
	1309					STA		CTBPL, X	SEI PUINIER BEGIN
	01310			12		STA	A	CTBPH X	MADN
	01311					FCB	_	\$3F,03	TABX
	01312				******	LDA		#160	SECTOR LENGTH
	21313				WSWLP	LDA		X	MOVE DATA
	01314			6000		STA	A	RWFIFO	
	01315					INX	-		
	81316					DEC	В	***** D	
	01317					BNE	_	WSWLP	MANE COME CEACE
	01318			10		LDA		#16	MAKE SOME SPACE
	81319				***	CLR		DUELEO	
				6000	WRIT3	STA		RWFIFO	
	01321					DEC	В		
_	01322			FA		BNE		WRIT3	DECEMBE A
	01383		_			PUL	A	0011000	RESTORE A
	01324					BSR	_	CONSEC	CONVERT TO PHYS NO
	01325		-			LDA		#WTCMD	WRITE COMM DRIVE
	01326					STA		DRIVAD	5545 465041 656565
					WILP	LDA		FORMAD	READ ACTUAL SECTOR
	01328			3F		AND	В	#\$3F	
	01329					CBA			
	01330					BNE	2	WILP	
	01331					LDA		#WRITC	WRITE COMM FORMATTER
	01332					STA	B	FORMAD	
	01333					JSR		CHECK	
	01334					BCC		*+5	
	01335				Laurence .	JMP		CHERRT	
В	01336	FF57	F6	6800	BUSYW	LDA	В	FORMAD	
в	01337	FF5A	2B	FB		BMI		BUSYW	BUSY
-	01338	FF5C	F6	FIIB		-		STATUS	CHECK ON WRITE?
	01339	FF5F	C5			BIT	В	#\$40	
	01340					BEQ		WIE	NO!
3	01341	FF63	BD	FE7C		JSR		READ1S	
9	01342	1166	25	04		BCS	_	WRERRT	ERROR?
	01343	1168	5F		WIE	CLR	В		
8	81344	FF69	7E		WRTN	JMP		DISRET	
	01345				WRERRT	DEC		TRY	
•	81346	FFOF				BNE	_	WE1	
•	01347	FF71	C6	06		LDA	В	#6	WRITE ERROR
P	01348	FF/3	20	F4		PRA		WRTN	
		-			*				
	01350	FF75			WE1	FCB		\$3F,06	PULX; CCPY X AGAIN
	01351	FF77	3F			FCB		\$3F,05	PSHX
	01352	FF/9	7 E	FF03		JMP		WRIT1	
	01353	FFGG	0.5		*	D 000	-		
	01354	FF7C	37		CONSEC	PSH	В		
	01355	FF7D	16			TAB	_		MIT MIDIN TOTAL DV 0
1	01356	FF/E				ASL			MULTIPLY TOTAL BY 3
	01357	FF/F	1B			ABA-		"10	
	01358	FF80	81	13	CONT	CMP	A	#19	
	01359	2844	23			BLS		CONEND	
	01360	FF84	80	14		SUB	A	#20	
	01361	1186	20	F8		BRA		CONT	

```
01362 FF88 4D CONEND TST A
01363 FF89 26 02 BNE *-
                                             ZERO?
01363 FF89 26 02
01364 FF8B 86 13-14
                                    #1720
                          LDA A
                             DEC A
Ø1365 FF8D 4A
Ø1366 FF8E 33
                            PUL B
Ø1367 FF8F 39
                            RTS
                     ************
01368
01369
                     *
                     MCLØ FCB $D,$A,0,0,'C,'D,'S,7
Ø137Ø FF9Ø ØD
                     MCL1 FCB
STRG1 FCB
                           FCB $D, $A, $FF, $FF, 4
Ø1371 FF98 ØD
                                 $D, $A, $FF, $FF, 'B, 'E, 'G, 'A, ', 4
Ø1372 FF9D ØD
               STRG2 FCB $D,$A,$FF,$FF,'E,'N,'D,'A,'
MTAPE1 FCB $D,$A,$FF,$FF,$FF,'S,'1,4
MTAPE3 FCB $D,$A,$FF,$FF,'S,'9,,,4
MTAPE4 FCC / MAKE DEV READY AND HIT/
01373 FFA7 0D
01374 FFB1 0D
Ø1375 FFB9 ØD
11376 FFC2 20
                                    / SPACE/
1377 FFD9 20
                             FCC
                                   $D, $A, $FF, $FF, 4
Ø1378 FFDF ØD
                            FCB
                   INULD FCC /INVALID RANGE/
01379 FFE4 49
                           FCB
                                    SD, SA, SFF, SFF, 7, 4
01380 FFF1 0D
                     ***********
01381
01382
          FFF7
01383
                     PGMEND EQU
01384
                                    $FFF8
                             ORG
Ø1385 FFF8
                                   IO IRQ VECTOR
01386 FFF8 FA11
                            FDB
                                    SWIHDR SWI VECTOR
Ø1387 FFFA F827
                             FDB
                                             NMI VECTOR
                                  POWDWN
01388 FFFC FA16
                            FDB
                                 START RESET VECTOR
Ø1389 FFFE FB19
                            FDB
                     ***********
01390
01391
                                  $F100 SYSTEM RAM
01392 F100
                            ORG
                     IOV
                                              IRQ VECTOR IN RAM
                            RMB
                                    2
01393 F100 0002
                                    2
                                              NMI VECTOR IN RAM
                             RMB
01394 F102 0002
                     NIO
                                             SWI VECTOR IN RAM
                                 2
1395 F104 0002
                     SWIVEC RMB
01396 F106 0002 ACIAVC RMB 2
01397 F108 0002 INSWTC RMB 2
01398 F10A 0002 OTSWTC RMB 2
01399 F10C 0002 BEGA RMB 2
01400 F10E 0002 ENDA RMB 2
01401 F110 0002 TW RMB 2
                                              DEVICE VECTOR
                                             INPUT SWITCH
                                              OUTPUT SWITCH
                                              START ADDRESS
                                              ENDING ADDRESS
                                 2
                   TW
TSP
                                             TEMP SAVE
01401 F110 0002
                                   2
01402 F112 0002
                                               STACK SAVE
                           RMB
                                    1
                                              BUILD ADDRESS HIBYTE
                    XHI
                           RMB
01403 F114 0001
                                   1
                                              IDEM LOBYTE
01404 F115 0001
                   XLO
                           RMB
                   CKSM RMB
                                    1
                                              CHECKSUM
01405 F116 0001
                     TEMP1
01406 F117 0001
                                    1
                                            AUX REG
                            RMB
                                            BYTECOUNT 1
                   BYTEC1 RMB
                                    1
01407 F118 0001
                   BYTEC2 RMB
                                              BYTECOUNT 2
01408 F119 0001
                                    1
                   MCONT RMB 1
                                              FRAME COUNT
Ø1409 F11A ØØØ1
01410 F11B 0001 STATUS RMB 1
01411 F11C 0001 TRSCNT RMB 1
01412 F11D 0002 ERRVEC RMB 2
01413 F11F 0002 ERSAVE RMB 2
31414 F121 0001 CURCYL RMB 1
01415 F122 0001 CURHED RMB 1
                                              IC STATUS FLAGS
                                              TRACE COUNT
                                              ERROR VECTOR
                                              XSAVE ON ERROR
                                               CURRENT CYLINDER
                                    1
                                              CURRENT HEAD
                     CURHED RMB
01415 F122 0001
```

ADABX F8ED ADDAB F8F2 STAUXH F8F8

PAGE	007	KEEBUG	5			
			A Burn		;	0 (
			KINDO	and B	in the state of th	Randon register
01416	F123	9991	TRY	RMB	1	TRY COUNT FOR READ OR WRITE
01417	1 120	0001	*	AND	•	THE COUNT FOR READ OR WRITE
01418		F1B4	TSTACK	FOIL	IOV+180	USER STACK
01419			*	LWO	100.100	OSER STACK
01420		F1FØ	CSTACK	EQU	IOV+240	MONITOR STACK
01421			*	240	201-2-10	THE TELL DITION
01422		F1F8	TABLE 1	EQU	IOV+248	NAME BUFFER
01423			*			
01424			******	*****	*****	******
01425				END		
JMPTBL	. F800	<b>3</b>				
XINCH	F800					
XOUTCH						
XCONTL						
XBADR						
XBYTE						
XHEX	F8ØF					
XOTSTO						. •
XPDATA XSADR	F818					
XOUT4H						
XOUTSH						
XOUTS	F821					
XDSCIC						
ACIA	F000					
ACIA2	F002	2				
TRACAD	F004	1				
SWIHDR	F827	7				
STRT	F83A					
UC	0002					
UB	0003					
UA	0004					
UXH	0005					
URH	0007					
URL	0008					
PSHAL	F863					
PSHALS						
PSHALC						
PULAL	F87F					
PULAC	F882	?				
PULALS	F880	;				
TXAB	F89A	A				
STAB	F89F					
TABX	F8A4					
XABX	F8AE					
PSHX	F8B9					
PSHXA PULX	F8BE					
PULXA	F8DE					
ADXAB	F8E6					
ADARD	FRET					

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OF TENTE

TESTZ F8FD TESTZA F901 ADDAX F904 ADDZ F907 F90B ADDBX F910 SBXAB SBABX F917 F924 SUBAX F927 SUB SUBBX F932 INDEX F937 F93F MUL8 F948 **JMPTZ** F94A MUL16 MUL16L F954 MUL16S F95A F971 MPY8 MPY8L F979 F97D MPY85 0009 FROM TOO 000B MOVC F985 F988 MOVC1 MOVC2 F99B MOVC3 F9A3 0009 PARM 1 PARM2 000B F9A4 CMPC F9A7 CMPØ CMP 1 F9B9 F9BF CMP2 F9C2 CDONE MOVS F9C9 F9CA MOVS1 F9DE MOVS2 F9E6 MOVS3 DSPTAB Ø1AD FA11 IO POWDWN FA16 RDRON FA1B NOECHO FA20 FA28 LOAD FA2A LOAD3 LOAD4 FA3D LOAD11 FA59 LOADIS FA65 OUTQM FA6A LOAD21 FA6E FA6E C1 OUTHL FA71 OUTHR FA75 FA7F OUTCH INCH FA82 FA85 BADDR

. 14 1307 158341 ATTEN FORM FORT FITE Foor CELES. u / (us. F916 Z11.52.X 6144 1007 4430 1.36.4 1061 (FILE) F937 IMPEX 8.1114 FSSF 2002 31 136 377.3 DI JEV MILLET LE शब् MU 165 MEAN 1723 2007 18:11 OFN S FESSIO (1) (4) 3:100 2.04 3000 I nor vi 1433 7007 7,717 1 PAPT STERRY IN THE 12.15 4 3 14.1 -, 43 1221 122 7334 14-1 - 11(1 ) ् न् - 1 717-4 74 75 71 74 75 1174 71 Transfer 100 -10-32 1024

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10123

BADR1 FA8F BYTE FA93 **OUTSTG FAA5** PDATA2 FAAA PDATA1 FAAD CHANGE FAB4 CHA1 FAB8 C3 FAD1 CHA14 FAD4 CHA12 FAD5 CHA11 FAE4 INHEX FAE8 IN1HG FAFC ERROR FAFD OUT2H FBØ5 OUT2HA FB07 OUT4HS FB10 OUT2HS FB12 OUTS FB14 START FB19 ERRSET FB4A SETDEV FB50 CONTRL FB56 CL10 FB99 CONTIN FBBF CL1 FBC6 SFE FBD5 PRNTRG FBE1 C4 FBE3 PRTREG FBE6 INCH1 FBFF PNHOFF FC02 OUTCH1 FCØ4 RDROFF FC07 ECHO FCØB ECH01 FC10 PUNCH FC14 FC22 PUN35 PUN11 FC28 PUN22 FC3A PUN23 FC3C PUN40 FC4D PUN32 FC60 PUN5Ø FC71 PUNT2 FC7D SADDR FC82 FCB5 PRINT FCCB PRT1 PRT2 FCD8 SELCAR FCF8 PRT3 FD02 PRT4 FD04 INCMD FD06

OUTEE FDØD

4,870 MAL RARY KEWIT AND WELL M WE OUTTOO LETTOON - WITH 351 TOTAL OF THE -110

3844 IR 107 ega: 1773 2 44 172,007 AAAT OHTATI MAGH ISTAN MADE TORN (PA) FAR Chair halv CLUIP FATE FAFE CHELL FAFE 1111 -111/1 DEAT THIE OUTEN FT AN WESTED OUTSH PHATUD Childia 2 13 Lina elle sten OFF TIME 1111 111111 3 - - 4 12 11 11 4 . 0045 7117 4-15 (111 17) 10077 (JC) 2007 (JC) TOTAL STATE \* 19 E TO E 19 P = " 1.0 1.00 THE THE PARTY 9 94 11 18

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OTCR FD15 OT1 FD18 RET2 FD20 RET1 FD23 INEEE FD24 INPUT FD39 INCR FD41 INI FD44 PNHTRL FD4D PL1 FD50 PNCHTR FD57 C5 FD5F OFFSET FD62 OFIL FD71 OF2L FD7E OFFFIN FD8F TRACE FD97 TRACYC FDB8 TRACE1 FDC9 CTCTH 0000 CTCTL 0001 CTN1 0002 CTM 1 000A CTFG 000D CTBSH 000E CTBSL 000F CTLSH 0010 CTLSL 0011 CTBPH 0012 CTBPL 0013 CTDC 0014 CTDR 0015 CTNSH 0016 CTNSL 0017 CTBAH 0018 CTBAL 0019 CTST 001A FORMAD 6800 DRIVAD 6801 RWFIFO 6000 CONSEL 0080 DIFSEL 0040 HEDSEL 0020 RDCMD 0004 WTCMD 0011 RTHS 0040 READC 0003 WRITC 0002 0004 FWDSK RUSSK 0020 DISCIO FDD5 DISRET FDEØ DISC1 FDE6

RST1

FEØF

DIMESTER - SA' 194 MSW. nd Full RDM IN INTE

177 MOFO 8177 1 . 1 1111 THAME 1974 1 I I This Hill Fill 8277 1.11 rent anapar सन्धन २० किरान एनट वका ITHE HIM 1014 CEPL ानमा० मान THACE FLOT THACYC FIRE POINTENANT Wedd Atota TT TTO 1113 C1 1. 14 . 19 1417 9957 #3.7F3 7000 1.17 VI 1 7:17 1: " IR ITT 4,250 EITA 4917.7 18 17 1723177

111 614 3JU

DR2 FE10 CHECK FE12 CHK5 FE18 CHR FE25 CHK4 FE29 DISC2 FE2C REDSEC FE41 REDSC1 FE46 R2D FE53 RSWLP FE63 DR3 FE6C RDERRT FE6F CHERRT FE78 READIS FE7C R2S FE81 BUSYR FE93 ROK FEA3 RER FEA5 GETCYL FEAT SETT2 FEC2 SETT3 FED2 SETT1 FEDD GETERR FEE7 GETHED FEE8 SETTIØ FEF9 WRTSEC FEFE WRIT1 FFØ3 WRIT2 **FF11** WSWLP FF28 WRIT3 FF34 WILP FF42 BUSYW **FF57** WIE FF68 WRTN FF69 WRERRT FF6C WE 1 **FF75** CONSEC FF7C CONT FF80 CONEND FF88 MCLØ FF90 MCL 1 **FF98** STRG 1 FF9D STRG2 FFA7 MTAPE1 FFB1 MTAPE3 FFB9 MTAPE4 FFC2 INVLD FFE4 PGMEND FFF7 F100 IOV F102 NIO SWIVEC F104 ACIAVC F106 INSWIC F108

CTSWTC FIØA

DIAR SHIE BIEF HOER CHEE FFIE CINE FERS १९२२ व्यान DESTE STORY DUTTE FEAT PETER I FEAR ARR FEES PEVLE FEES THE FEEC POPER FEEF CHEEFT FERE PERDIS FETC BER FEE DUEYR FF 92 HOR FEAS CACT 151 17 9567 011 1144 TTTT 17 1017 me. 27

37 = 4 . 7 7 3 2 4 2 = \_1 . . . . . 3 4 4 5 7 7 8 4

11

BEGA F1ØC FIØE ENDA TW F110 TSP. F112 XHI F114 XLO F115 CKSM F116 TEMP1 F117 BYTEC1 F118 BYTEC2 F119 MCONT FILA STATUS FILB TRSCNT F11C ERRVEC FIID ERSAVE F11F CURCYL F121 CURHED F122 TRY F123 TSTACK F1B4 CSTACK F1F0 TABLE1 F1F8

TOTAL ERRORS 00003